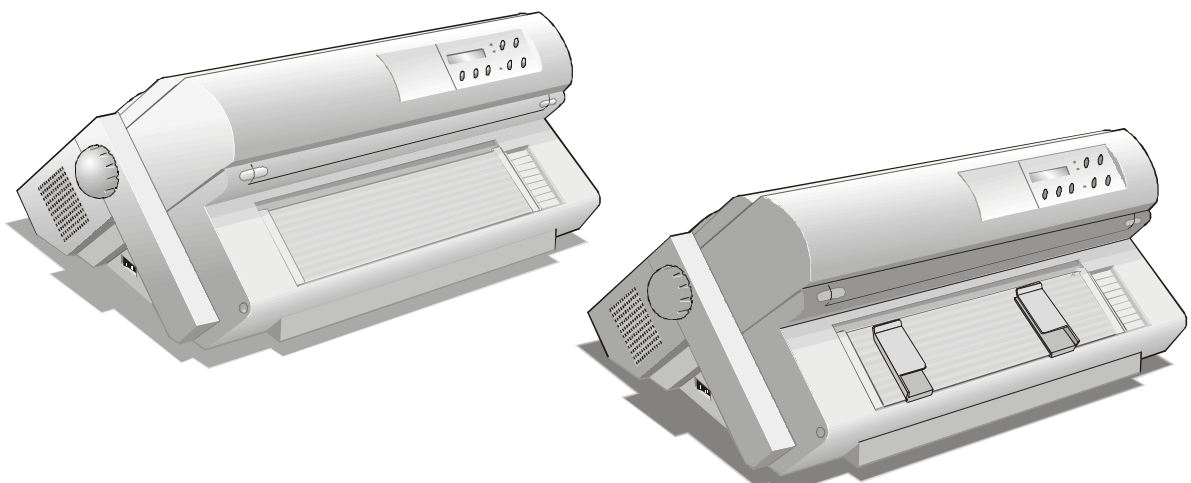
9058

9058D

User Manual



Compuprint

Rev. 001

Compuprint Information

Thanks *for choosing this printer.*

Your printer is a reliable working equipment that will be very useful in your daily job.

Our printer have been designed to be compact and respectful of the work environment. They offer a wide range of features and multiple functions that confirm the high technological level reached by the Compuprint S.p.A .

To maintain these printing performances unchanged in the long run, Compuprint has developed specific consumable accessories for each printer type (for example: ribbon cartridges for dot matrix printers, toner and OPC cartridges for laser printers, bubble ink jet cartridges for inkjet printers) that assure an excellent operation with high printing quality level reliability.

Compuprint recommends to use only its ***original consumables with original packaging (identified by its holographic label).*** *In this way, a proper use of the printer at quality level unreliability stated in the product characteristics can be assured. All typical usage problems related to not certified consumables may be avoided, such as an overall quality print level degradation and ,often, the reduction of the product life due to the fact that the proper print heads working conditions, OPC cartridge and other printer parts are not assured.*

Moreover, Compuprint does not only certify its consumables in terms of working conditions but also carefully controls their compliance with the international standard rules concerning:

- *no cancerous materials;*
- *no inflammability of the plastic materials;*
- *other standards*

Compuprint advices the customers not to use products for which the compliance to this safety rules are not warranted.

Finally seek your dealer or contact a Compuprint office and be sure that are provided you the original Compuprint consumables.

FCC Notes

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occurin a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver to outlets on different circuits.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the party responsible for compliance could avoid the user's authority to operate the equipment. The use of a non-shielded interface cable with the referenced device is prohibited. The length of the parallel interface cable must be 3 meters (10 feet) or less. The length of the serial interface cable must be 15 meters (50 feet) or less..

Canadian D.O.C. Radio Interference Regulation

This digital apparatus does not exceed the Class B limits for radio noise emission from digital apparatus as set out in the radio interference regulations of the Canadian Department of Communications.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de classe A prescrites dans le règlement sur le brouillage radioélelctrique édicté par le ministère des communications du Canada.

EEC Regulations

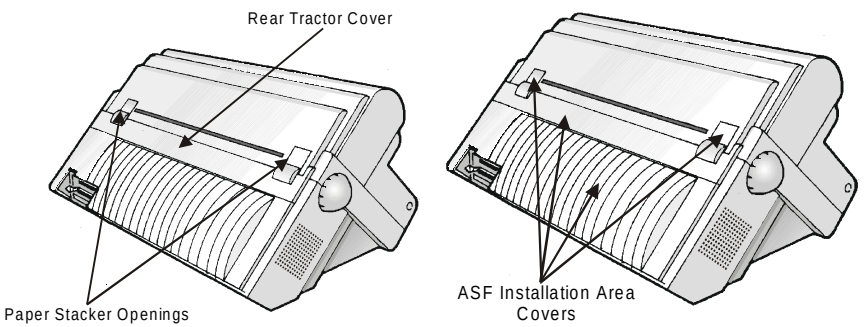
This equipment conforms to the EEC Directive 89/392 (the sound pressure, measured according to ISO 7779, does not exceed 70 dBA).

Safety Information

A. Never remove any printer cover unless it is necessary for the installation of a printer accessory and expressly described in this manual.

B. Please retain the printer covers in a safe place because they should be reinstalled if you decide to remove any printer accessory.

The following areas of the printer should be covered for safety reasons:



The above openings must always be protected with their cover when the corresponding option is not installed. Do not touch inside and do not insert any object into these openings or into the gears.

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Getting to Know Your Printer

Printer Features

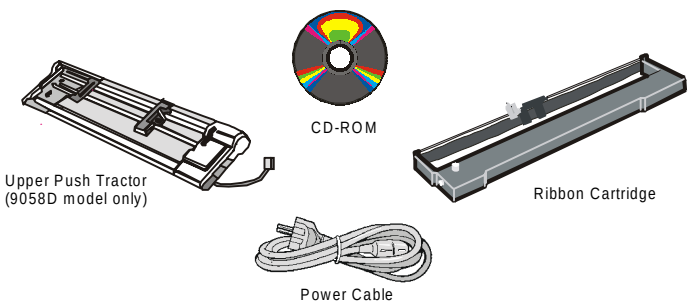
The following list describes the main characteristics of your printer:

- 24 Needle Print Head
- 136 columns
- Draft printing at 480 cps, LQ printing at 133 cps
- The supported emulations are: IBM Proprinter XL24-XL24E, Personal Printer 2391 and EPSON LQ 1050-2550
- High Resolution Graphics Printing (360 x 360 dots per inch)
- Multiple copies (1 original and 7 copies)
- Automatic paper path selection
- Easy operability via operator panel menu and S/W commands
- Optional Automatic Sheet Feeder (120 sheets capability) which handles cut sheets, multicopies and envelopes, accepts up to two additional paper bins and includes paper stacker
- Optional Color Kit
- Usage of all specific features by means of the Specific Software Driver which is applicable to the most popular S/W Packages
- Plug & Play capability for Windows 95/98
- Bi-directional IEEE 1284 parallel interface and standard serial RS-232/C and RS-422/A interface

Unpacking Your Printer

Together with the user manual, the following items are included in the box:

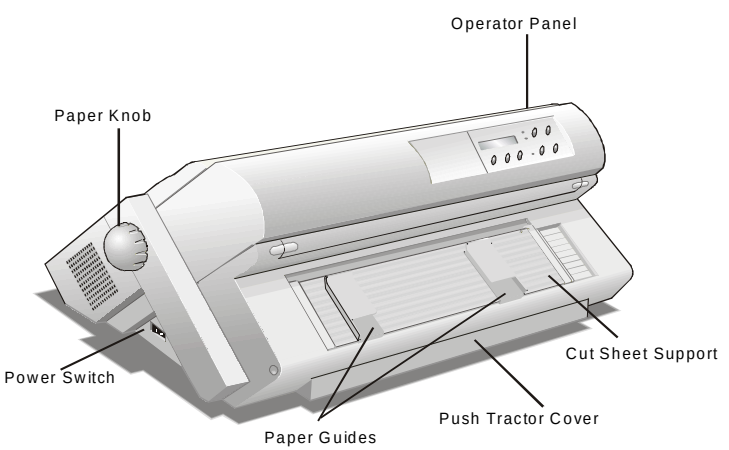
Notify any damage to your supplier.



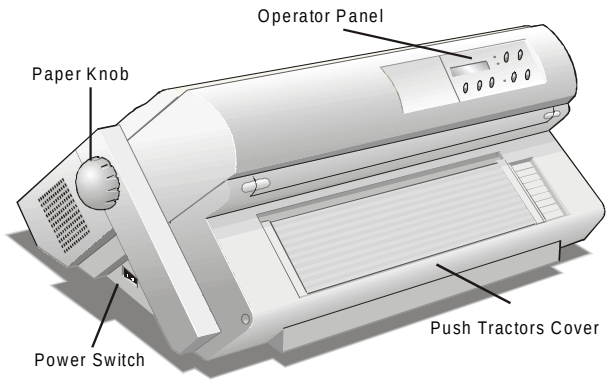
Printer Parts

Front View

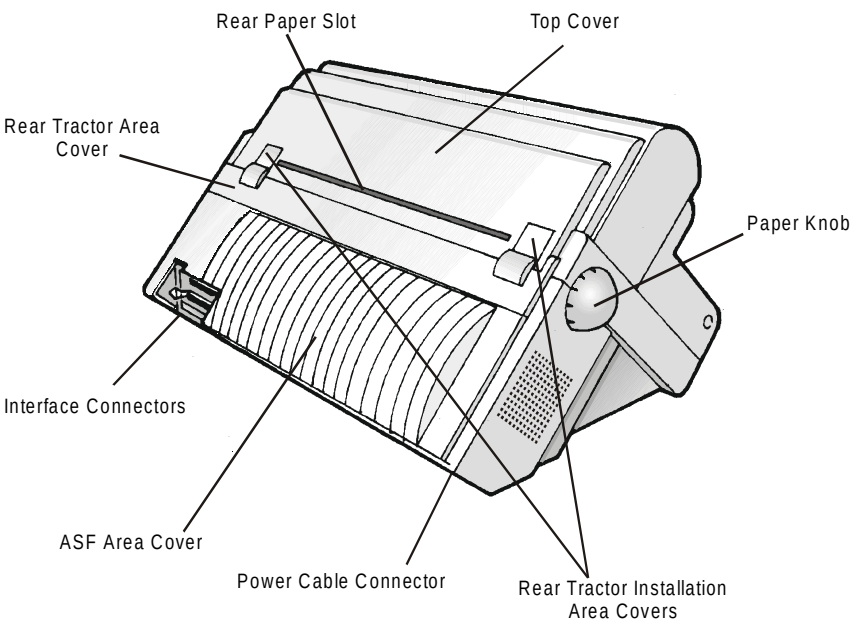
9058 model



9058D model



Rear View



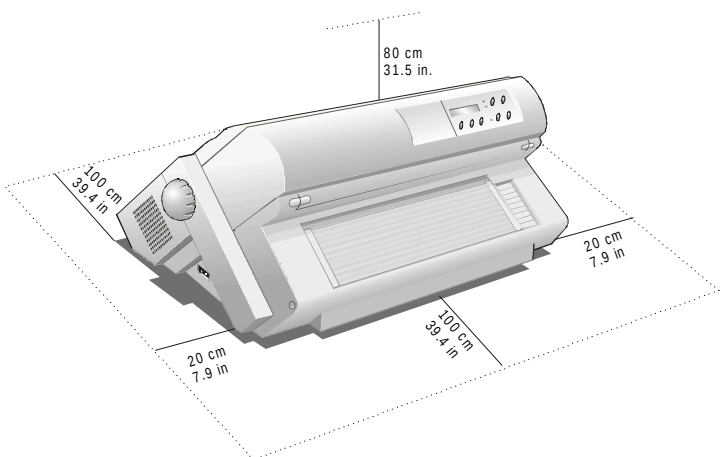
Setting Up Your Printer

Choosing a Suitable Location

Consider the following points when you choose the location for your printer:

- The distance between the printer and the host computer must not exceed the length of the interface cable;
- The location must be sturdy, horizontal and stable;
- Your printer must not be exposed to direct sunlight, extreme heat, cold, dust or humidity (see "Printer Specifications", later);
- You need an AC power outlet compatible with the plug of the printer's power cord. The voltage of the outlet must match the voltage shown on the printer's Rating Plate;

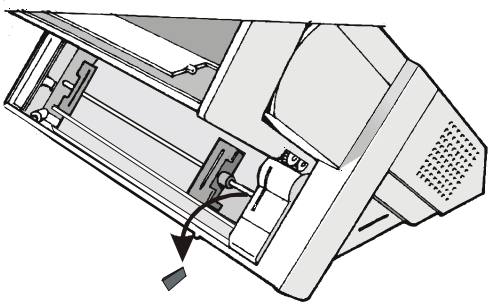
Additionally, you must make sure that when you install the printer in the selected location, there are sufficient clearances on all sides for easy operation. The required space is shown below:

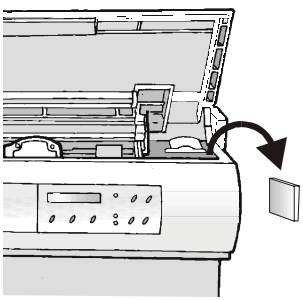


Printer Assembly

Removal of the Shipment Locks

Open all the printer covers and make sure that you remove all the shipment locks from the printer.

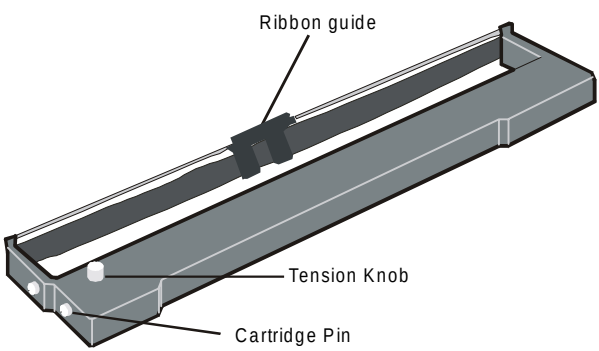




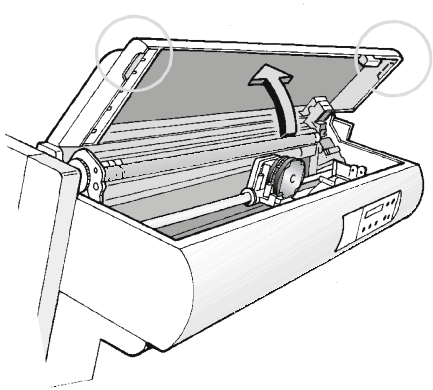
Ribbon Cartridge Installation

Two types of ribbon cartridges are available for this printer, depending on whether the color kit is installed or not.

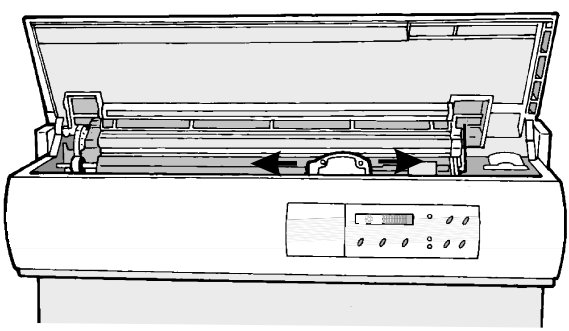
1. Make sure that the printer is powered off.
2. Find the ribbon cartridge among the accessories.



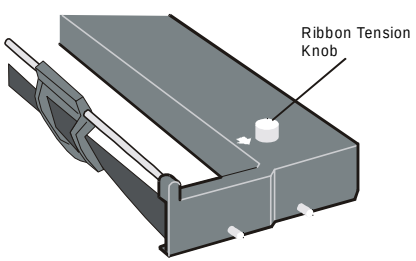
3. Open the top cover using the small handles on either side of the top cover.



4. Turn the printer on. The print carriage prepares for ribbon cartridge installation.



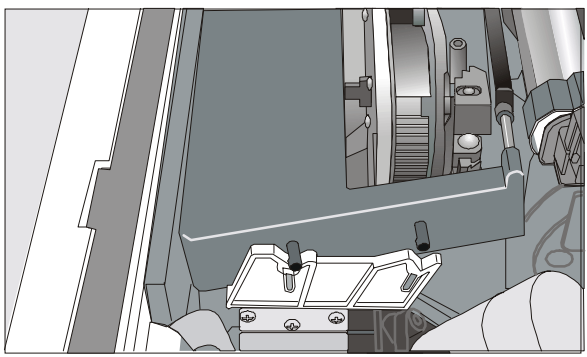
4. Before installing the ribbon cartridge, turn the ribbon winding knob in the arrow direction (located on the cartridge) to take up slack in the ribbon.



To avoid damage to the ribbon, do not turn the winding knob in the wrong direction.

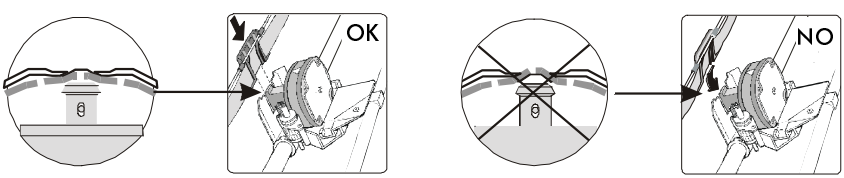
5. Align the cartridge pins with the locking grooves on the left and right cartridge supports.

> The cartridge (black 'Long Life' or color) to be used when the color kit is installed has only one groove.

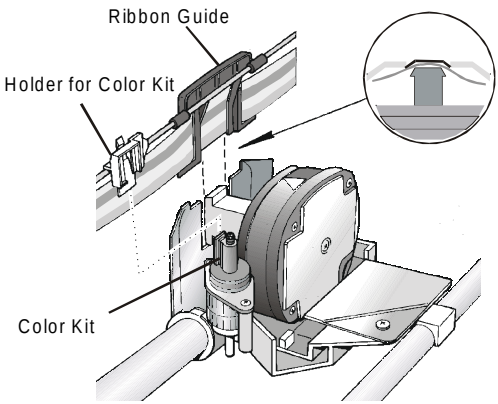


6. Slide and insert the ribbon guide between the print head and the ribbon guide mask holding it perpendicular to the print head.

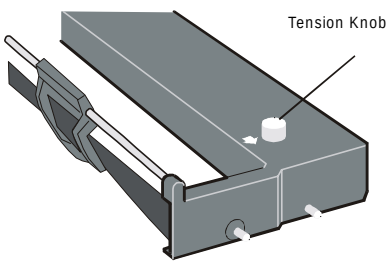
> Make sure that the ribbon is inserted correctly between the print head and the print head mask.



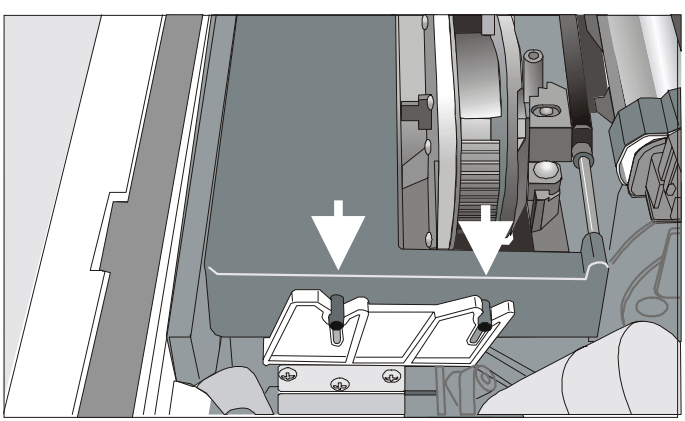
If the color kit option is installed on your printer insert the white plastic holder onto the color kit as shown in the following figure.



7. Turn the ribbon winding knob in the direction of the arrow to take up slack in the ribbon.



8. Push the cartridge down gently until it clips into place at all four locking points.



9. Turn the ribbon winding knob again in the direction of the arrow to take up slack in the ribbon.

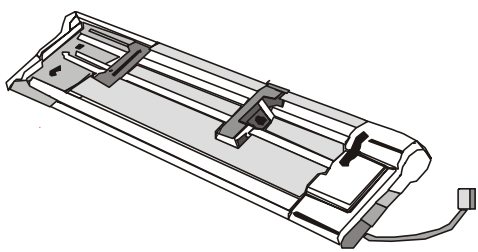
10. To ensure that the ribbon guide runs freely along the ribbon, manually move the print carriage horizontally.

If you need to replace the used ribbon cartridge, see "Replacing The Ribbon Cartridge".

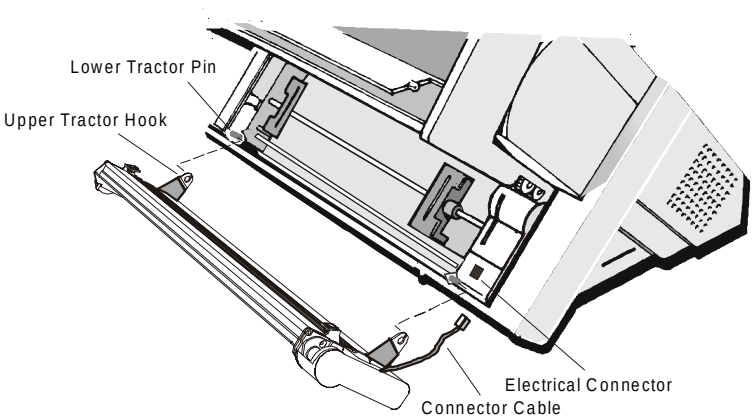
Upper Push Tractor Installation (9058D model only)

An additional push tractor is provided with the 9058D printer. This second push tractor unit can be installed in front position (on the lower push tractor).

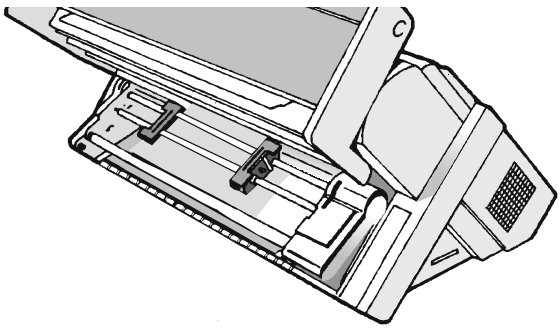
1. Find the upper push tractor among the accessories.



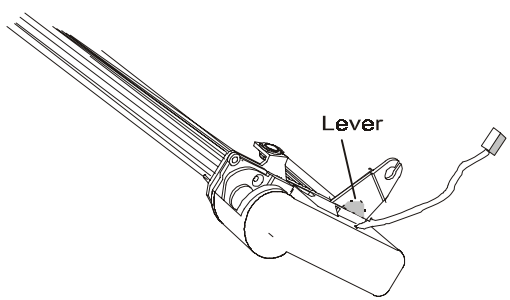
2. Install the upper push tractor aligning both its hooks with the lower push tractor pins and inserting them into the corresponding pins. Push the upper tractor until it is fully engaged. Insert the connector cable in the electrical connector located in the lower push tractor.



3. The upper push tractor must be installed as shown in figure.



4. If you need to remove the upper push tractor, turn the printer off. Take the connector cable off and press on the internal levers (located in the upper push tractor hooks) to disengage the tractor.



Host Computer Connection

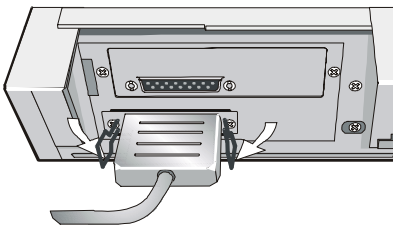
This printer can be connected to your host computer via two available interfaces:

- A bidirectional IEEE1284 parallel interface
- A RS-232C/422C serial interface

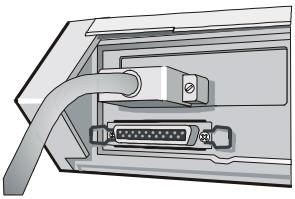
> ✍ Before connecting the interface cable, make sure that the printer and the host computer are turned OFF .

Insert the *parallel interface cable* into the parallel connector and fasten it by means of the clips.

Insert the *serial interface cable* into the serial connector, and fasten it by means of the two screws (use the screwdriver).



Parallel Interface



Serial Interface

Software Driver Selection

At this point it is necessary to configure your printer for your application package. The installation procedures depend upon the host environment.

Follow the instructions in the *readme* file you find on the CD-ROM.

In a Windows 95/98 environment, the printer supports the Plug & Play feature.

The printer drivers of all Compuprint printers can be found at the Internet Address http://www.compuprint.net

Power Connection

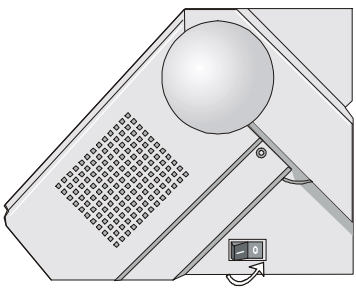
Make sure that the power outlet matches the power rating of the printer. See the name plate of the printer, that you find under the rear ASF cover.

In case the power rating does not correspond DO NOT CONNECT THE PRINTER TO THE MAINS. Consult your dealer for help.

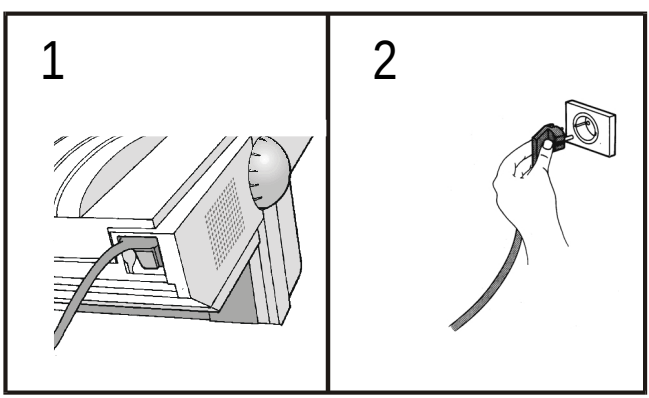
1. Make sure the power outlet is near the printer location and easily accessible.

> Always use a grounded outlet.

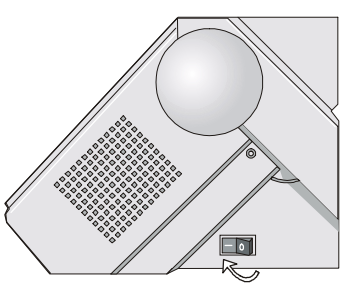
2. Make sure that the power switch is in *0 position (*OFF).



3. Insert the power cable plug into the printer connector and the other power cable end into a convenient outlet (the figure shows the European version).



4. If you need to turn the printer on, press the power switch in the *I position* (ON).



Selecting the Display Language

The display messages for this printer can be displayed in five different languages: English (Default), French, German, Italian and Spanish. To select the language, that you prefer, proceed as follows:

1. Press the PROGRAM key and keep it pressed while powering on the printer until the following message will be displayed:

RELEASE KEY

2. When you release the PROGRAM key, the following messages will be displayed:

9058	or	9058D

   then,

PRINT OUT? NO

3. Press the ↓ key to enter the menu. The first menu item is displayed:

PARALL INTERFACE

4. Press the ↓ key until the language first level function is displayed:

FUNCTIONS

5. Press the → key to pass to the second level functions:

PAPER OVERLAY	for the 9058 model

   or

SEQUENCE NONE	for the 9058D model

6. Press the ↓ key until the menu language is displayed:

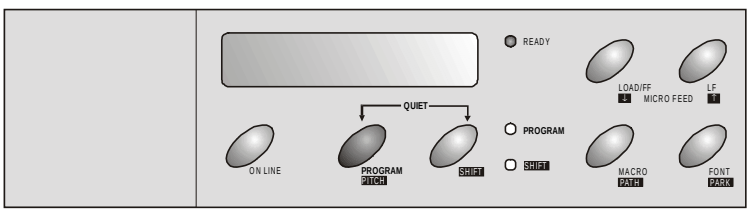
MENU ENGLISH

7. Press the → key to scroll the menu languages. When the desired language is displayed, press the PROGRAM key to select it. The printer exits the menu. From now on the display messages appear in the selected language.

Configuring the Printer

Operator Panel Presentation

The operator panel enables you to perform many of the printer functions including paper path selections, font selection and the printer setup.



The operator panel consists of:

- A 16 character display (Liquid Crystal Display)
- Three function mode indicators
- Seven function keys

Display Messages

Instruction Messages

Message	Description
LOAD ASF1 LOAD ASF2 LOAD ASF3	These messages are displayed when the corresponding paper path is out of paper.
LOAD LOWER PUSH LOAD LOW.PUSH&MF LOAD MANUAL FORM LOAD PSH-PLL&MF LOAD PUSH-PULL LOAD UPPER PUSH	The printer displays **only** the messages related to the installed devices.
RELEASE KEY	This message is displayed when you can release the PROGRAM key in the Self-test selection or in the Power-on Configuration procedure.

Status Messages

Message	Description
font cpi	The printer is offline or online without printing.
ASF1	The first paper bin of the automatic sheet feeder (ASF) is selected.
ASF2	The second paper bin of the automatic sheet feeder (ASF) is selected.

Message	Description
ASF3	The third paper bin of the automatic sheet feeder (ASF) is selected.
LOWER PUSH	The lower push paper path is selected.
LOW.PUSH&MF	The lower push paper path and manual single sheet path are selected (9058 model only).
MANUAL FORM	The manual single sheet path is selected (9058 model only).
MENU LOCKED	When the access to the Printer Setups has been locked at the power on, the printer displays this message.
MENU UNLOCKED	When the access to the Printer Setups has been unlocked at the power on, the printer displays this message.
MICRO FEED DOWN ↓	The paper is fed in microsteps downwards when pressing the arrow key.
MICRO FEED UP ↑	The paper is fed in microsteps upwards when pressing the arrow key.
PSH-PLL&MF	The push-pull paper path and manual single sheet path are selected (9058 model only).
PUSH-PULL	The push-pull paper path is selected.
QUIET PRINT OFF	Printing at normal noise level.
QUIET PRINT ON	Printing at reduced noise level
UPPER PUSH	The upper push paper path is selected (9058D model only).
SELF TEST	Printing the self-test page.
SHIFT FUNCTION	This message appears to indicate that the Shift functions of the operator panel keys have been selected pressing the SHIFT key.

User Intervention Messages

Message	Description
EJECT PAPER	The printer is ejecting a cut sheet.
EJECT: SURE?	The user must confirm the ejection of the paper.
MACRO CHANGING	The macro has been changed and the printer is updating the settings.
PARK ABORTED	This message appears to indicate that the interruption of the paper parking, at the request of the user, has been set pressing the SHIFT key.
PARK: SURE?	The user must confirm the parking of the paper pressing the PARK key or may choose to leave the parking procedure pressing the SHIFT key.

Message	Description
PATH CHANGING	The path has been changed and the printer is updating the settings.
TEAR OFF PAPER PARK PAPER	These messages are displayed when the printer receives a paper parking command. Tear off the fanfold then press the PARK key to park the paper.

Indicators

READY	Lit when the printer can receive and print data (printer online). Blinks when there is data in the buffer and the printer is offline. Unlit, when the printer is disabled and the buffer does not contain any data, or during the initialization, setup or tests.
PROGRAM	Blinks when one of the printer setup procedures has been selected: *Program Configuration* or *Power-On Configuration*.
SHIFT	Lit when the alternate function of the keys has been enabled pressing the SHIFT key.

Function Keys

The function keys are enabled, when the printer is offline. (READY indicator unlit). The function keys have three functions each.

Normal Function The *normal* function of the keys does not require previous action to select it. This function is indicated in black characters beside the function keys.

Shift Function The *alternate* function is selected pressing the SHIFT key.
The alternate functions of the keys are described on the gray areas beside the keys. The SHIFT indicator lights and the display shows SHIFT FUNCTION.
This function is not enabled, if the printer is in setup mode.

Program Function The *program* function is selected pressing the PROGRAM key, where:

- If you press the key while powering on the printer, the *Power-On Configuration* is selected.
- Pressing the key when the printer is enabled without printing or disabled (READY indicator unlit), the Program Setup is selected.

In the Program Setup mode only the four arrow keys and the PROGRAM keys are enabled. When the printer in setup mode, the PROGRAM indicator blinks.

ON LINE Key

ON LINE	Normal Function	• Enables or disables the printer. • If this key is pressed while powering the printer on, the self test is printed; the printout is topped pressing this key again. • In an error condition, once the error cause has been removed, press this key to enable the printer. • If the Tear-Off Function in the *Program Setup* is set to `Manual`, press this key to position the paper for the Tear-Off.
	Program Function	Pressing this key, the input buffer is cleared an a break (250 msec.) on a serial interface is sent. The message `RESET & BREAK` is displayed.

PROGRAM Key

PROGRAM	Normal Function	Enables the printer setups as follows: • Pressing this key while powering on the printer, the *Power-On Configuration* is selected. • Pressing this key when the printer is enabled without printing or disabled, (READY indicator unlit) the *Program Setup* is enabled.
PITCH	Shift Function	Selects the pitch to be used with the currently selected font. The selected pitch is valid until the printer is turned off.
	Program Function	Exits the current printer setup. See also “How to leave the Configuration Setup”, later in this section.

SHIFT Key

SHIFT	Normal Function	Enables the alternative key functions. If the printer is receiving print data, press the ON LINE key before pressing the SHIFT key. If no printing data are in the print buffer, pressing the SHIFT key, the printer goes offline. The display then shows SHIFT FUNCTION to indicate that the Shift Function of the keys is enabled. May be used to abort paper parking procedure. See also "How to Handle the Paper Parking", later in this manual.
	Shift Function	Disables the alternative key functions.

LOAD/FF Key

LOAD/FF	Normal Function	Executes a Form Feed (FF): when paper is loaded into the printer, it advances to the following page, if no paper is loaded, it is positioned for printing.
↑	Shift Function	Moves the paper forward in microsteps. Keeping the key pressed the paper is moved continuously at increasing speed.
↑	Program Function	Scrolls the parameters of the functions or macros backwards

LF Key

LF	Normal Function	Performs a line feed according to the current line spacing settings.
↓	Shift Function	Moves the paper backward in microsteps. Keeping the key pressed the paper is moved continuously at increasing speed.
↓	Program Function	Scrolls the menu and macro functions forward.

MACRO Key

MACRO	Normal Function	Selects one of the user macros (Macro 1, Macro 2, Macro 3 or Macro 4). If you want to select the displayed macro, wait for 2 seconds without pressing any key and the parameters of this macro will be set
PATH	Shift Function	Selects one of the paper paths. The parameters of the displayed path are set pressing the SHIFT key.
←	Program Function	Scrolls the menu and macro functions backward

FONT Key

FONT	Normal Function	Selects the font to be used with the currently selected pitch. The selected font is valid until the printer is turned off.
PARK	Shift Function	Parks the paper in the currently selected paper path.
→	Program Function	Scrolls the menu and macro functions forward.

Key Combination

PROGRAM +SHIFT	Normal Function	When the printer is on line without printing or printing data (READY indicator lit) or when the printer is unable to receive and print data but there is still data in the input buffer (READY indicator blinks) press these two keys contemporaneously, the printing noise level toggles between normal (QUIET PRINT OFF) and reduced noise level (QUIET PRINT ON). When the printer is out of paper the printing noise level function is disabled.
ONLINE + MACRO + SHIFT	Normal Function	Lock or unlock the access to the printer setups. See later "How to Lock/Unlock the Access to the Printer Setups" section.

Printer Configuration

The main printer setup parameters can be selected via the operator panel. The setup parameters are divided into the following two printer menus. The *Power-On Configuration*, that allows a complete configuration at installation time according to the hardware and the emulation types, and the *Program Setup* that allows you to set the functions that are the most useful in your daily job. These settings can be selected when the printer is in online without printing or offline (READY indicator unlit). These settings can be stored in the NVM.

Entering the Printer Setups

- Press the PROGRAM key and keep it pressed at the printer power on until the `RELEASE KEY` message is displayed to select the *Power-On Configuration*.
- Press the PROGRAM key when the printer is online without printing or offline (READY indicator unlit) to select the *Program Setup*.

Moving within the Printer Setups

The arrow keys ↑, ↓, ← , → are used to move within the different functions inside the Printer Setups. See the following description of the Setups for a detailed description of the key to be used in the various positions inside the Printer Setups.

Leaving the Printer Setups

- In the *Power-On Configuration*, pressing the PROGRAM key the printer exits from the menu and the new settings will be automatically saved.
- In the *Program Setup*, pressing the PROGRAM key, the following choice is offered for the storage of the values set:

`STORE? QUIT`	The new settings are not activated and the old settings remain valid.
`STORE? SAVE`	The new settings are stored permanently in the NVM (Non Volatile Memory).
`STORE? CURRENT`	The new settings remain valid until the printer is turned off.

Press the → or ← keys to scan these selections forward and backwards. When the desired setting is displayed, press the PROGRAM key to exit from the menu.

Power-On Configuration

The default values of the various functions are indicated in bold.

Entering the Power-On Configuration

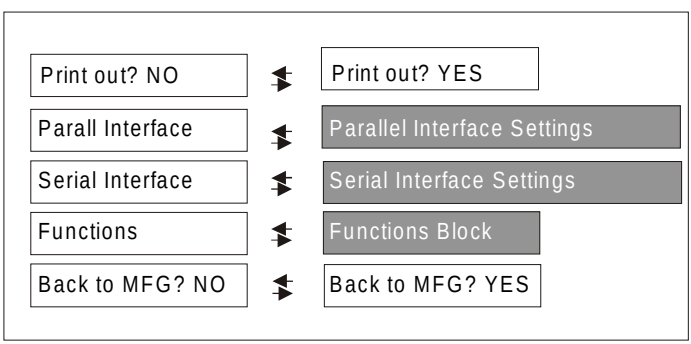
1. Make sure that the printer is turned off.
2. Press and hold the PROGRAM key pressed while powering on the printer until the `RELEASE KEY` message is displayed. As soon as the PROGRAM key gets released, the following message will be displayed:

`9058`	or	`9058D`

then,

The following figure shows the structure of the *Power-On Configuration* and how to move inside the Setup.

Main Structure

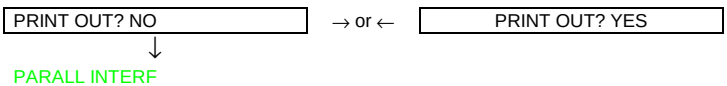


The functions concerning the interfaces group the parameters for the configuration of the interfaces.

The setup item `Functions` groups the following printer functions:

- Paper overlay (9058 model only),
- Paper loading sequence,
- Buzzer setting,
- Quick cut sheet loading (9058 model only),
- Ribbon type,
- Barcode density
- Text printing direction,
- Graphics printing direction,
- Bar code printing direction,
- Paper path at power on,
- Language of the display messages.

Printout of the Printer Settings



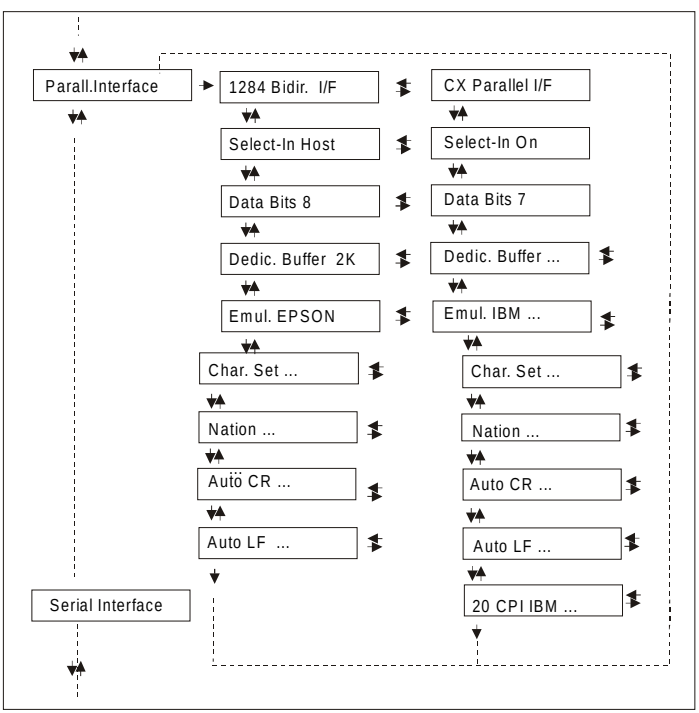
PRINT OUT? NO
PRINT OUT? YES

The Setup is not printed.
The printer setup is printed showing the currently selected values. The printout starts as soon as you select this value.

Parallel Interface

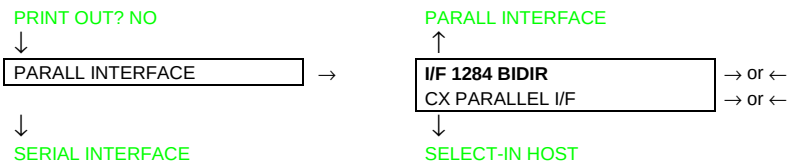
This menu defines the use of the parallel interface and is structured according to the interface specific parameters.

Parallel Interface Parameters



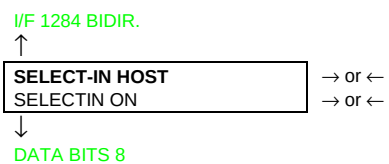
Setting the Interface Parameters

Interface Type



I/F 1284 BIDIR	Bidirectional IEEE 1284 parallel interface.
CX PARALLEL I/F	Centronics type parallel interface (monodirectional)

Setting the Select-In Signal

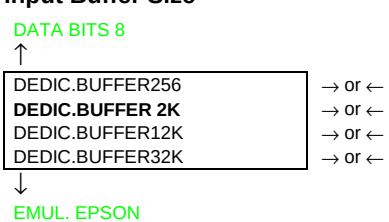


SELECT-IN ON	The SELECT-IN signal of the parallel interface is ignored and treated always as ON.
SELECT-IN HOST	The printer checks the SELECT-IN signal coming from the host.

Number of Data Bits

Selection of the number of data bits: 7 or 8

Input Buffer Size



Selects the input buffer size. For the DLL the input buffer must be set to 2 K.

Printer Emulation

DEDIC.BUFFER2K
↑

EMUL. IBM XL24	→ or ←
EMUL. IBM XL24AGM	→ or ←
EMUL. IBM 2391	→ or ←
EMUL. EPSON LQ	→ or ←

↓
CHAR. SET CS2

EMUL IBM XL24	The printer uses the IBM Proprinter XL24e emulation.
EMUL IBM XL24 AGM	The printer uses the IBM Proprinter XL24 AGM emulation.
EMUL. IBM 2391	The printer uses the IBM Personal 2391 emulation.
EMUL. EPSON LQ	The printer uses the EPSON LQ 1050/2550 emulation.

EPSON Character Sets

EMUL. EPSON
↑

CHAR. SET CS1	→ or ←
CHAR. SET CS2	→ or ←
CHAR. SET ITALIC	→ or ←

↓
NATION CP437

These items select the character set to be used in EPSON emulation.

IBM Character Sets

EMUL. IBM
↑

CHAR. SET CS1	→ or ←
CHAR. SET CS2	→ or ←

↓
NATION CP437

These items select the character set to be used in IBM Proprinter emulation.

EPSON National Character sets

Selection of the national character sets in EPSON emulation.

CHAR. SET CS2
↑

NATION CP437	→ or ←
NATION ...	→ or ←
NATION LATIN A1	→ or ←

↓
AUTO CR YES

The following national character sets are available:

CP 437*(*)*	CP437 G	CP850	CP851	CP 852	CP 853
CP 855	CP 857	CP 858	CP 860	CP 862	CP 863
CP 864	CP 865	CP 866	CP 867	CP 876	CP 877
96GREEK	GOST	TASS	ISO 8859/1	ISO 8859/2	ISO 8859/3
ISO 8859/4	ISO 8859/5	ISO 8859/6	ISO 8859/7	ISO 8859/8	ISO 8859/9
ISO 8859/15	USA	FRANCE	GERMANY	ENGLAND	DENMARK1
SWEDEN	ITALY	SPAIN1	JAPAN	NORWAY	DENMARK2
SPAIN2	LATIN A1				

The CP585 and ISO8859/15 character sets contain the Euro symbol.

IBM National Character Sets

CHAR. SET CS2

↑

NATION CP437	→ or ←
NATION ...	→ or ←
NATION 8859- 15	→ or ←

↓

AUTO CR YES

The following national character sets can be selected:

CP 437*(*)*	CP437 G	CP850	CP851	CP 852	CP 853
CP 855	CP 857	CP 858	CP 860	CP 862	CP 863
CP 864	CP 865	CP 866	CP 867	CP 876	CP 877
96 GREEK	GOST	TASS	ISO 8859/1	ISO 8859/2	ISO 8859/3
ISO 8859/4	ISO 8859/5	ISO 8859/6	ISO 8859/7	ISO 8859/8	ISO 8859/9
ISO 8859/15					

The CP585 and ISO8859/15 character sets contain the Euro symbol.

CR Code Behavior

NATION xxx

↑

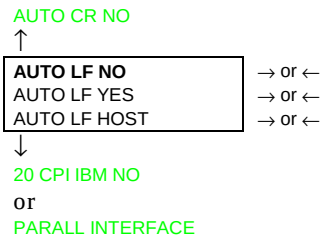
AUTO CR NO	→ or ←
AUTO CR YES	→ or ←

↓

AUTO LF NO

AUTO CR NO	No automatic carriage return is performed after a LF, VT or ESCJ code.
AUTO CR YES	The printer performs an automatic carriage return after a LF, VT or ESCJ code .

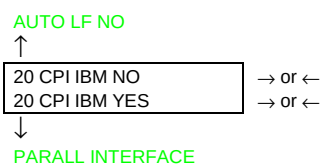
LF Code Behavior



AUTO LF NO	No Automatic LF after CR.
AUTO LF YES	Automatic LF after CR.
AUTO LF HOST	This item is displayed only in EPSON emulation. The printer checks the AUTOFEEDXT signal coming from the host and executes an automatic LF after CR, if the signal is low. This item is displayed only for the parallel interface.

IBM Compressed Printing

These items are displayed only, if the IBM emulation is selected.

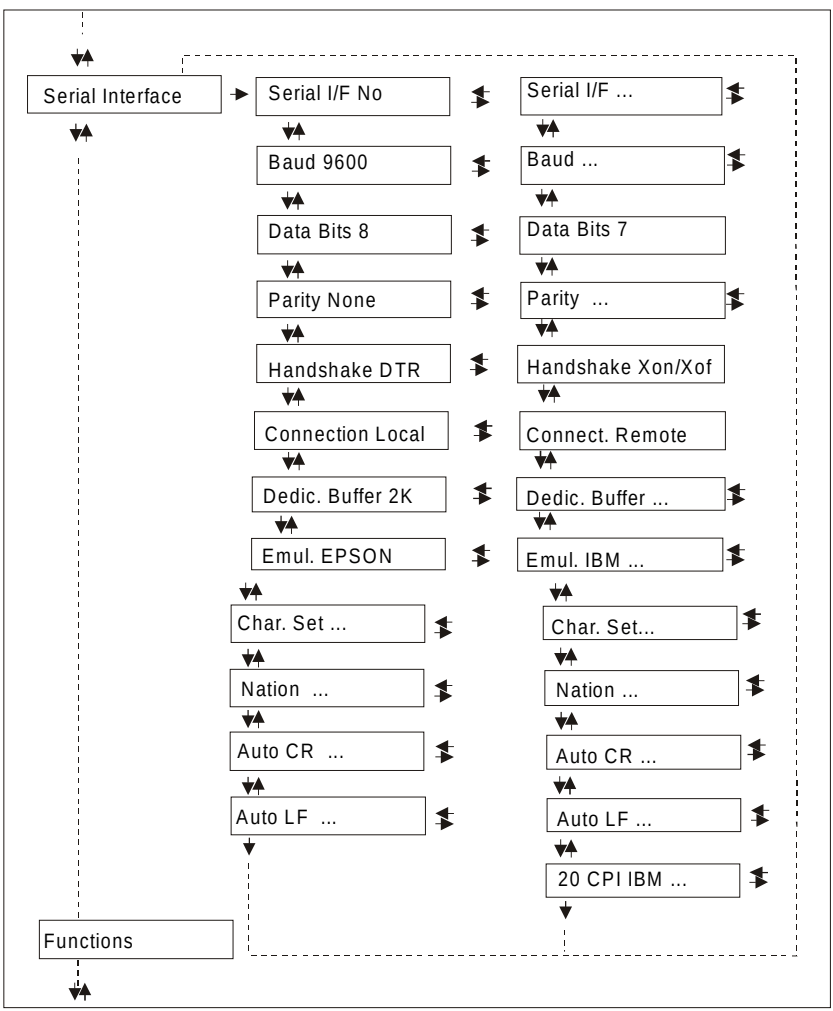


20 CPI IBM NO	The compressed printing is performed at 17,1 cpi.
20 CPI IBM YES	The compressed printing is performed at 20 cpi.

Serial Interface

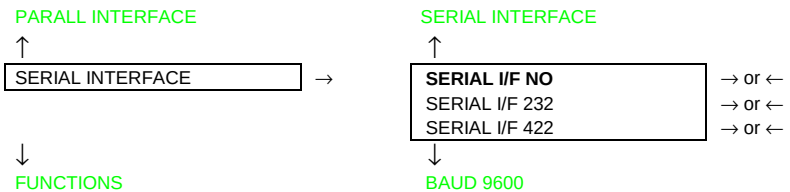
This menu defines the use of the serial interface and is structured according to the interface specific parameters.

Serial Interface Parameters



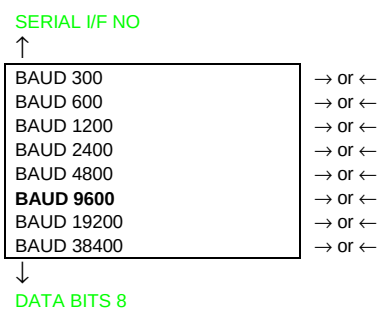
Setting the Interface Parameters

Interface Type



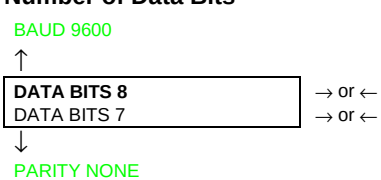
SERIAL I/F NO	The serial interface is disabled.
SERIAL I/F 232	Defines the usage of the serial interface RS-232/C.
SERIAL I/F 422	Defines the usage of the serial interface RS-422/A.

Baud Rate



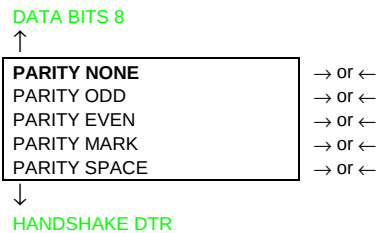
The baud rate is selected in bits per second. The above values can be selected.

Number of Data Bits



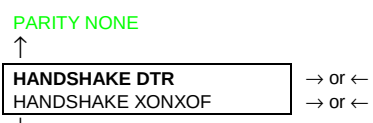
Selection of the number of data bits: 7 or 8.

Parity Check



PARITY NONE	Data does not have a parity bit, i.e. 8 bit data are transferred and the parity check is disabled.
PARITY ODD	Parity check is enabled for odd parity.
PARITY EVEN	Parity check is enabled for even parity.
PARITY MARK	Parity check is disabled and the transmitted parity bit is always a Mark.
PARITY SPACE	Parity check is disabled and the transmitted parity bit is always a Space.

Handshake Protocol



HANDSHAKE DTR	The Handshake is performed using the DTR Protocol.
HANDSHAKE XONXOF	The Handshake is performed using the XON-XOFF Protocol.

Connection Type

Selects the connection type: local or remote.

Input Buffer Size

See description of the parallel interface.

Printer Emulation

See description of the parallel interface.

EPSON Character Sets

See description of the parallel interface.

IBM Character sets

See description of the parallel interface.

EPSON National Character sets

See description of the parallel interface.

IBM National Character Sets

See description of the parallel interface.

CR Code Behavior

See description of the parallel interface.

LF Code Behavior

See description of the parallel interface.

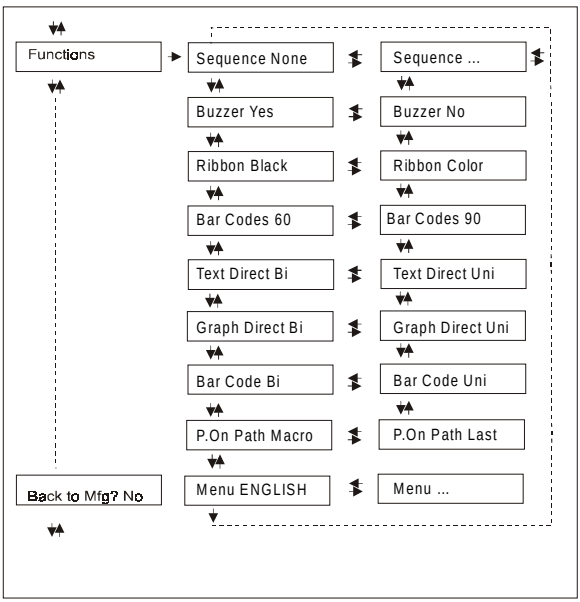
IBM Compressed Printing

See description of the parallel interface.

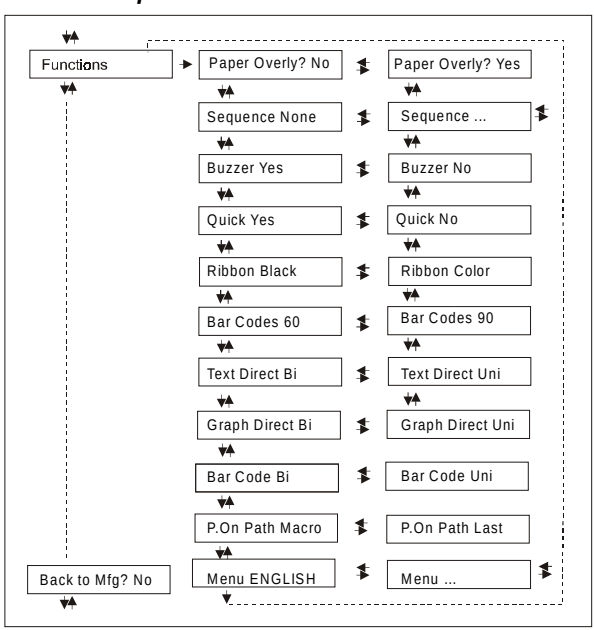
Functions

This item groups various printer functions, with which you can configure the printer.

9058 Functions Group Parameters



9058D **Functions** *Group Parameters*



Setting the Functions Group Items

SERIAL INTERFACE
↑
FUNCTIONS → FUNCTIONS
↑
PAPER OVERLAY NO 9058
or
SEQUENCE NONE 9058D

Paper Overlapping (9058 model only)

FUNCTIONS
↑
PAPER OVERLY NO → or ←
PAPER OVERLY YES → or ←
↓
SEQUENCE NONE

PAPER OVERLY NO — When feeding a cut sheet through the manual entry slot, the fanfold paper must be parked.

PAPER OVERLY YES — A single sheet can be fed simultaneously with a fanfold paper.

If the printer is using the Push Pull paper feed mode the Overlay Function cannot be selected. Only the `Paper Overlay No` item appears.

Paper Loading Sequence

This selection appears only if on the 9058 model the automatic sheet feeder is installed or if on the 9058D model the automatic sheet feeder or the upper tractor is installed.

PAPER OVERLY NO
↑
SEQUENCE NONE → or ←
SEQ. 1+2 PUSH (9058D model only) → or ←
SEQUENCE ASF1+2 → or ←
SEQUENCE ASF123 → or ←
↓
BUZZER YES

SEQUENCE NONE — The paper is fed only through the path selected by operator panel.

SEQ. 1+2 PUSH — The paper is fed firstly through the lower push path and successively through the upper push path (9058D model only).

SEQUENCE ASF1+2 — This item appears only, if the automatic sheet feeder is installed. The paper is fed from the first bin until this bin is out of paper. Then the paper is fed from the second bin.

SEQUENCE ASF123 — This item appears only, if the automatic sheet feeder is installed. The paper is fed from the first bin until this bin is out of paper. Then the paper is fed from the second bin and finally from the third bin.

Enable/Disable the Buzzer

SEQUENCE NONE
↑
BUZZER YES → or ←
BUZZER NO → or ←
↓
QUICK YES

or

BLACK RIBBON

Enable or disables the buzzer.

Quick Manual Loading through the Manual Slot (9058 model only)

BUZZER YES
↑
QUICK NO → or ←
QUICK YES → or ←
↓
BLACK RIBBON

QUICK NO — The single sheet in the manual path is loaded by the operator. The printer is then disabled.

QUICK YES — The single sheet in the manual path is loaded automatically. The printer is then enabled.

Ribbon Type Selection

QUICK YES

or

BUZZER YES
↑
BLACK RIBBON → or ←
COLOR RIBBON → or ←
↓
BAR CODE 60 DPI

Selects the ribbon type to be used with the printer: black or color.

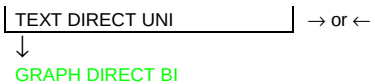
Bar Code Print Density

BLACK RIBBON
↑
BAR CODE 60 DPI → or ←
BAR CODE 90 DPI → or ←
↓
TEXT DIRCT BI

These selections are self-explaining.

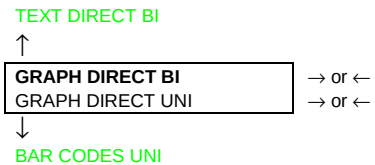
Text Print Direction

BAR CODE 60 DPI
↑
TEXT DIRECT BI → or ←



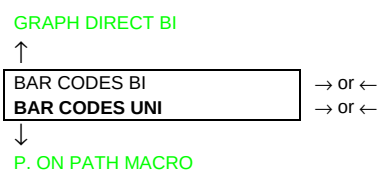
Selects the print direction for text.

Graphics Print Direction



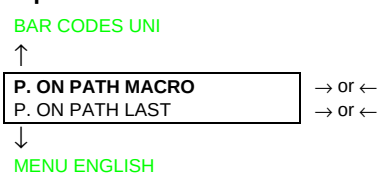
Selects the print direction for graphics.

Bar Codes Print Direction



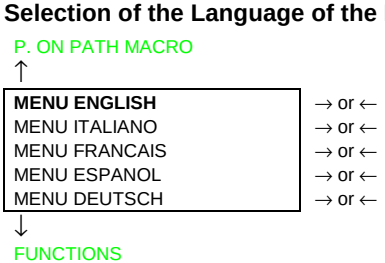
Selects the print direction for bar codes.

Paper Path at Power-On



P. ON PATH MACRO	The paper path at power-on is the one from the default Macro.
P. ON PATH LAST	The paper path at power-on is the last one that was selected before the printer was powered off.

Selection of the Language of the Display Messages



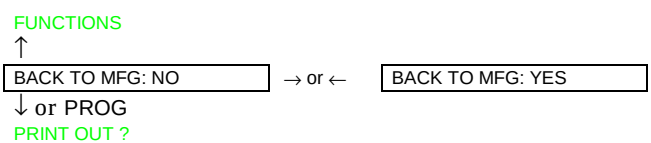
These items are self explaining.

See also “Selecting the Display Language” before in this manual.

Resetting to Factory Default Values

With the BACK TO MFG function it is possible to reset all items in the Power On Configuration and in the Program Setup to their factory default values. This may be useful if you do not remember the values you set in the menus, or because you simply changed you mind about the settings you have just done.

The default values for the menu items are described at the beginning of the "Power On Configuration Setup" paragraph.



If you want to select BACK TO MFG:YES, you have to exit from this item using the ↑ or the ↓ key, in order to confirm the selection of this value.

At this point, the Power On Configuration Setup procedure is finished. If you exit pressing the ↓ and the PROGRAM key, the new settings will be saved.

Do not power off the printer before all data have been written into the NVM and the printer has returned online.

Program Setup

The default values of the various functions are indicated in bold.

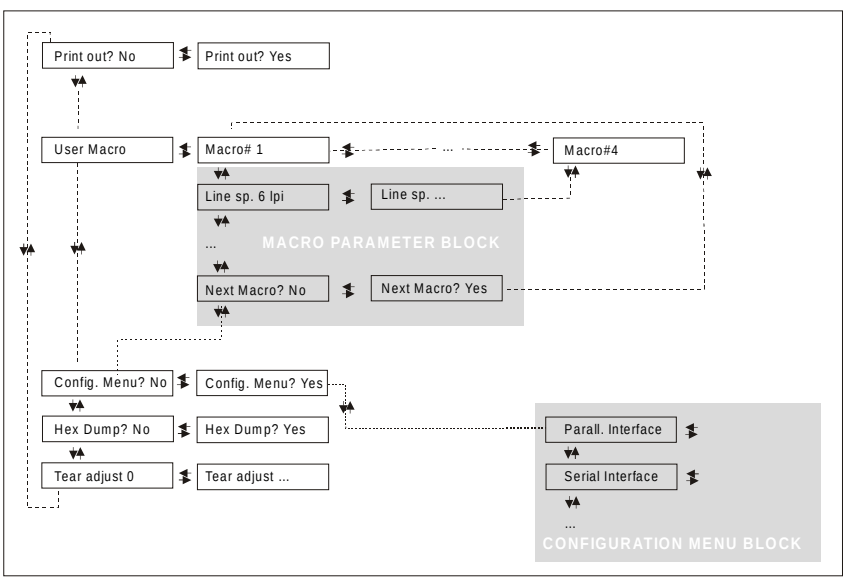
Entering the Program Setup

Press the PROGRAM key when the printer is turned on and is offline or online without printing. The following message will be displayed:

```
PRINT OUT? NO
```

The following figure shows the structure and how to move inside the Program Setup.

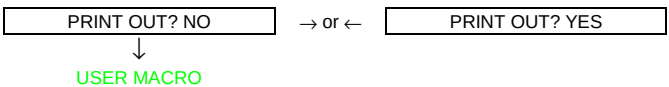
Main Structure



The items define the following parameters:

- Four user macros
- The direct access to the Power-On Configuration
- Hexadecimal printout
- Tear-Off adjustment

Printout of the Printer Settings



PRINT OUT? NO	The Setup is not printed.
PRINT OUT? YES	The printer setup is printed. The printout starts as soon as you select this value.

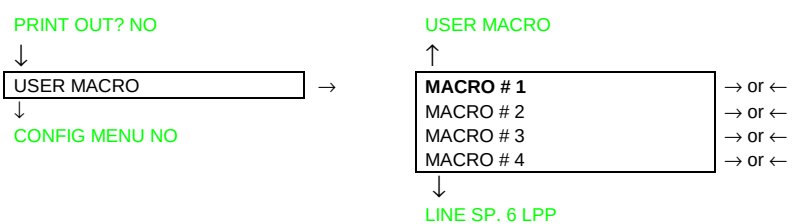
NOTE: the Program setup printout indicates:

- the currently selected values,
- the current selected macro is marked with the #x# symbols (`USER MACRO #x#`),
- the current firmware release.

User macro

The `USER MACRO` item allows to prepare four printing environments (`MACRO#1, MACRO#2, MACRO#3 and MACRO#4`). Each macro is composed of a group of parameters which define a configuration that can then be recalled to easily set the printer for four printing environments.

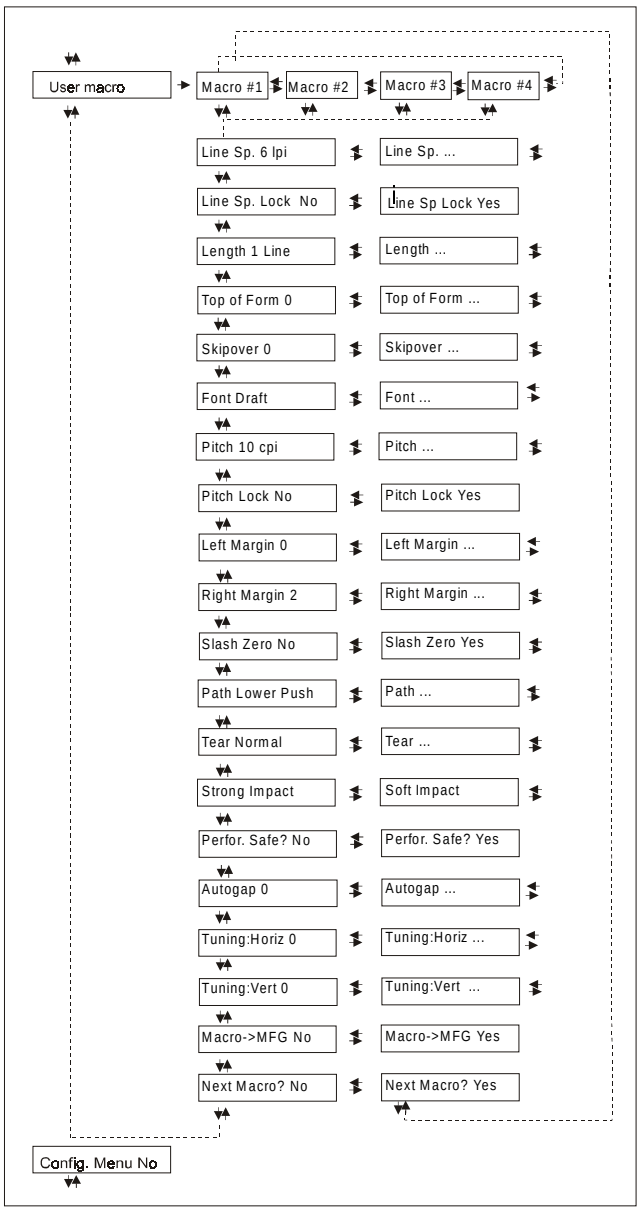
Selection of the User Macro



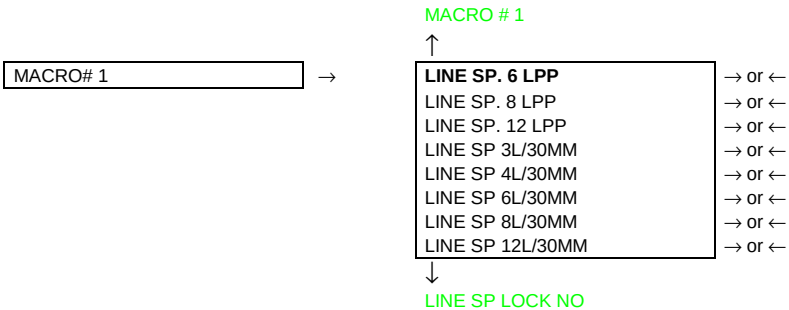
Selection of the macro for which you intend to set the parameters.

When a new macro is selected and the fanfold paper is present in the paper path set in the previous macro, it will be automatically parked (`PARK: SURE?` is displayed).Tear off this fanfold paper to avoid paper jams and press PARK key.

User Macro Parameters

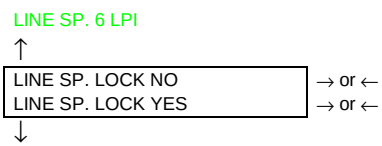


Line Spacing



These values define the line spacing in lines/inch (6, 8, 12) or in lines per 30 mm (3, 4, 6, 8, 12).

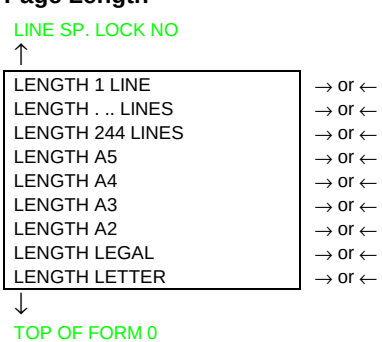
Line Spacing Lock



LINE SP. LOCK NO — Setting this item, the value set for vertical spacing can be changed by software or operator panel

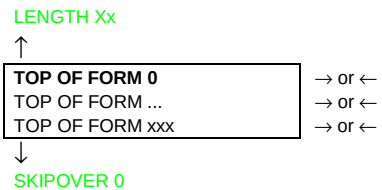
LINE SP. LOCK YES — Setting this item, the value set for vertical spacing cannot be changed by software but only by operator panel.

Page Length



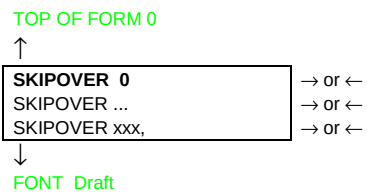
These items set the page length for fanfold paper in number of lines depending on the current vertical spacing. For the single sheets the page format can be specified in number of lines or the standard formats LETTER, LEGAL, A2, A3, A4, A5. Default value is **66 lines.**

Top of Form



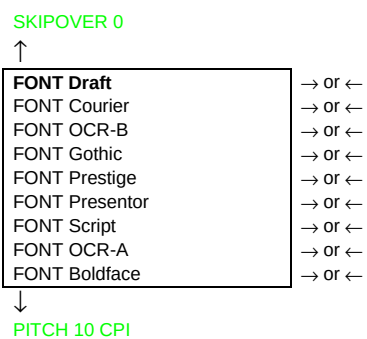
These items set the top of form. The values range between 0 and the page length - 1.

Skip Over Perforation



These items set the skipover perforation. The values range between 0 and the page length - 1.

Font Selection



Selects the fonts OCR-A and OCR-B only if the pitch is set to 5 or 10 cpi. Boldface can be selected only, if the proportional pitch has been selected (`PITCH PROP`).

Pitch Selection

FONT Draft

↑

PITCH 5 CPI	→ or ←
PITCH 6 CPI	→ or ←
PITCH 7.5 CPI	→ or ←
PITCH 8.5 CPI	→ or ←
PITCH 10 CPI	→ or ←
PITCH 12 CPI	→ or ←
PITCH 15 CPI	→ or ←
PITCH 17.1 CPI	→ or ←
PITCH 20 CPI	→ or ←
PITCH 24 CPI	→ or ←
PITCH PROP	→ or ←

↓

PITCH LOCK NO

These items are self-explaining.

Pitch Lock

PITCH 10 CPI

↑

PITCH LOCK NO	→ or ←
PITCH LOCK YES	→ or ←

↓

LEFT MARGIN 0

PITCH LOCK NO	Setting this item, the pitch can be changed by software or operator panel.
PITCH LOCK YES	Setting this item, the pitch can be changed ONLY by operator panel.

Left Margin

PITCH LOCK NO

↑

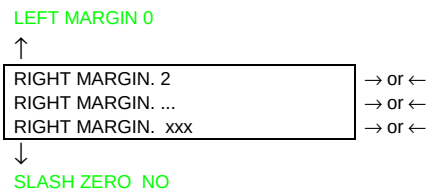
LEFT MARGIN 0	→ or ←
LEFT MARGIN ...	→ or ←
LEFT MARGIN xxx	→ or ←

↓

RIGHT MARGIN 2

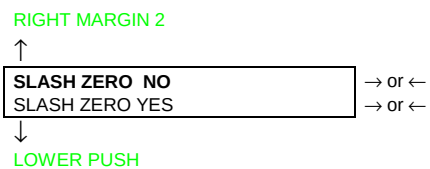
The Left Margin is set in number of columns (depending on the current pitch) starting from the physical left edge.

Right Margin



The Right Margin is set in number of columns (depending on the current pitch) starting from the physical left edge. Default value is **136.**

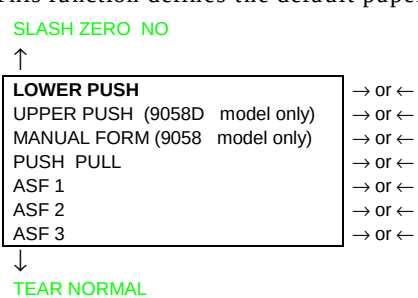
Zero Character Printing



You can select the Zero character printing with or without a slash.

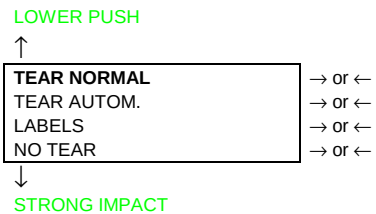
Paper Path Selection

This function defines the default paper path for the current macro.



LOWER PUSH	Paper loading with the lower push tractor.
UPPER PUSH	Paper loading with the upper push tractor (9058D model only).
MANUAL FORM	Paper loading using the manual single sheet path (9058 model only).
PUSH PULL	Paper loading using the lower push tractor and the rear pull tractor.
ASF1	Paper loading from the first bin of the ASF, if installed.
ASF2	Paper loading from the second bin of the ASF, if installed.
ASF3	Paper loading from the third bin of the ASF, if installed.

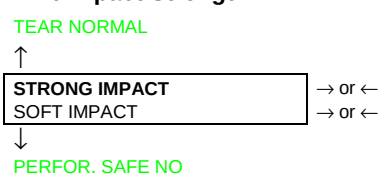
Tear-Off Mode



TEAR NORMAL	The Tear-Off Function is performed pressing the ONLINE key when the printer is offline .
TEAR AUTOM.	When the printer is not receiving any data, the paper is moved to the Tear-Off position. It is returned to the Tear-Off position as soon as it receives printing data.
LABELS	This item must be set when printing on labels, in order to avoid paper jams. The paper does not execute any backward movement.
NO TEAR	The paper does not execute any backward movement.

See also “How to Use the Tear-Off Function” later in this manual.

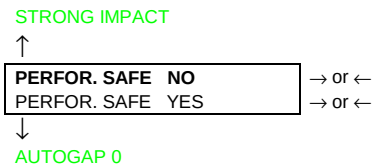
Print Impact Strength



STRONG IMPACT	The impact strength of the print head is set for printing on multicopy paper.
SOFT IMPACT	The impact strength of the print head is set for printing on single paper or few copies. The printing noise is reduced.

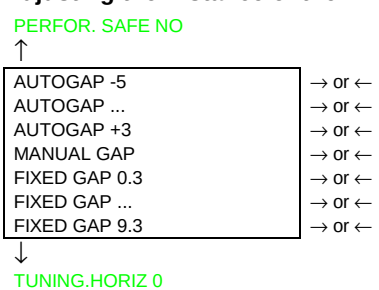
Paper Perforation

When printing on fanfold paper this function allows to move the print head aside the paper when the paper perforation passes between the mylar and the print bar, to avoid paper jams. If the use of single sheets is selected, this item is not displayed.



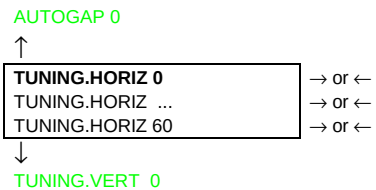
PERFOR. SAFE NO	The function is disabled. The print head remains in its position, when the perforation of the paper passes.
PERFOR. SAFE YES	The function is enabled. The print head is moved aside, when the perforation passes.

Adjusting the Distance of the Print Head



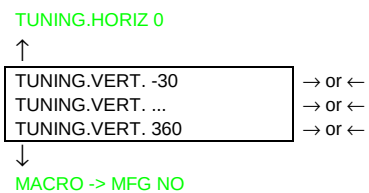
AUTOGAP xxx	Selecting one of these values sensing the paper thickness. Negative values reduce the distance between the print head and the paper. Default value **AUTOGAP 0.**
MANUAL GAP	Selecting this item, the print head must be adjusted manually.
FIXED GAP xxx	Selecting one of these values the printer adjusts the print head gap to a fixed distance.

Horizontal Character Tuning



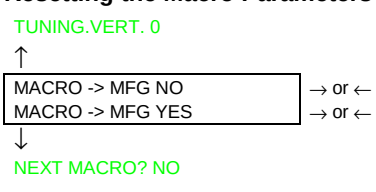
These values adjust the distance between the left paper margin and the first print character. The values correspond to 1/120 inch units, i.e. the tuning ranges between 0 and 0,5 inch.

Vertical Character Tuning



These values adjust the distance between the top paper margin and the first printable line. The values correspond to 1/180 inch units, i.e. the tuning ranges between -1/6 and 2 inch.

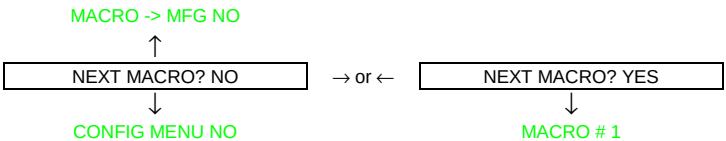
Resetting the Macro Parameters to the Factory Defaults



MACRO -> MFG NO	The new values set for the macro parameters will be the used.
MACRO -> MFG YES	The values set for the macro parameters will be reset to their factory defaults.

If you want to select `MACRO -> MFG YES`, you must exit this function pressing the ↑ or ↓ key to confirm the selection.

Selecting Another Macro



To pass over to another macro, select `NEXT MACRO YES`. Pressing the ↓ or ↑ key the item `MACRO#1` is displayed, then press the → key to pass over to `MACRO#2` (`MACRO CHANGING` is displayed) .

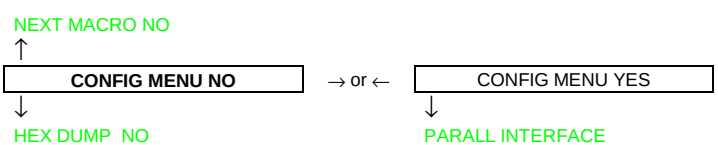
> When passing over from one macro to another, the fanfold paper loaded from the paper path, selected in the previous macro, will be automatically parked (`PARK: SURE?` is displayed). Tear off this fanfold paper to avoid paper jams and press PARK key.

You can now set the parameters for Macro#2 as described above. In this way you prepare the second printing environment .

Passing over from one macro to the other then sets two different printing environments.

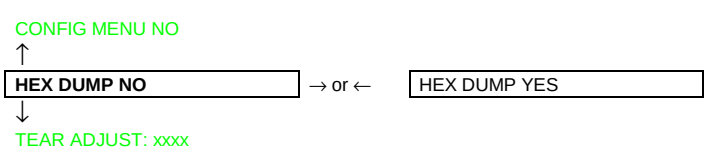
Passing over to the Power-On Configuration

At this point of the menu, it is possible to pass over to the Power On Configuration Functions Setting.



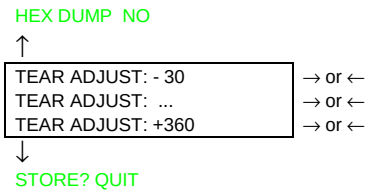
These items are self-explaining.

Hexadecimal Dump



If you select `HEX DUMP YES`, press the PROGRAM key to set this item. The hexadecimal printing continues, until the `HEX DUMP NO` item is selected, entering again into the Program Setup.

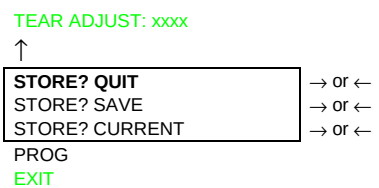
Adjusting the Tear-Off Position



TEAR ADJUST: xxxx — These values adjust the distance between the Tear-Off Perforation and the Tear-Off Bar. The values correspond to 1/180 inch units, i.e. the tuning ranges between -1/6 and 2 inch. Default: **0**.

See also “How to Use the Tear-Off Function”, later in this Chapter.

Storing the values



STORE? QUIT — This setting does not save any of the new values set. The values set previously will be used.

STORE? SAVE — The values set are stored permanently (in the NVM) and will be used until they are changed by the operator.

STORE? CURRENT — The values set are valid until the printer is turned off. When you turn the printer on again, the values set in the preceding menu setup will be used.

At this point the Program Configuration Setup is finished. You exit pressing the PROGRAM key.

How to Select the Paper Path

The paper can be loaded into the printer using different paper paths. The messages indicating the paper paths are shown only if the corresponding loading device is installed on the printer.

Proceed as follows:

1. Press the READY key to put the printer offline (the READY indicator is unlit).
2. Press the PATH key, according to the installed devices the following messages are displayed:

LOAD LOWER PUSH	For the lower push tractor paper path.
LOAD UPPER PUSH	For the upper push tractor paper path (9058D model only).
LOAD MANUAL	For the manual cut sheet paper path (9058 model only).
LOAD PUSH-PULL	For the paper path using the lower push tractor and the optional rear pull tractor.
LOAD ASF1	Loading a cut sheet from the first bin of the automatic sheet feeder.
LOAD ASF2	Loading a cut sheet from the second bin of the automatic sheet feeder. .
LOAD ASF3	Loading a cut sheet from the third bin of the automatic sheet feeder.

- To load fanfold paper go to “Loading Fanfold Paper Using the Lower Tractor” or “Loading Fanfold Paper Using the Upper Tractor” later in this manual.
- To load manual cut sheets go to “Loading Cut Sheets” later in this manual.
- For using paper with the Automatic Sheet Feeder option, consult the documentation you receive together with the option.

When a new paper path is selected, the paper loaded in the printer is automatically parked/ejected.

How to Use the Tear-Off Function

This function is used to match the paper perforation with the tear-off bar. For this function the following values must be set:

Selection of the Paper Size

1. Press the PROGRAM key when the printer is disabled or enabled without printing to enter the Program Setup.
2. Press the ↓ key and the following message appears:

```
USER MACRO
```

3. Press the → key to select the macro for which you want to set the paper size (MACRO#1, MACRO#2, MACRO#3 or MACRO#4).
4. Once the desired macro is displayed press the ↓ key until the following parameter is displayed:

LENGTH xx

5. Press the → or ← key until the desired page size is displayed.
6. Press again the PROGRAM key to exit the menu end set the new value.

Adjusting the Tear-Off Position

The default value for the Tear-Off Function is TEAR NORMAL. To check the Tear-Off Position proceed as follows:

1. To move the paper to the Tear-Off position, press the ON LINE key when the printer is disabled or enabled without printing.
2. Check if the paper perforation matches the tear-off bar on the printer.

If it does not:

1. Press the PROGRAM key to enter the *Program Setup*.
2. Press the ↓ key until the following message appears:

USER MACRO

3. Press the → key until the macro for which you want to adjust the tear-off is displayed (#1, #2, #3 or #4):

MACRO # x

4. Press the ↓ key until the following message is displayed:

TEAR ADJUST xxx

5. Press the → or ← key to scroll the values of this function.

The values below 0 move the tear-off position downwards, values above 0 move the paper upwards. The values can be set between -30 and 360 at 1/180 inches (-1/6 to 2 inches).

6. When the desired value is displayed, press the PROGRAM key. The storage options are displayed.
7. Press the → or ← key, until the following message is displayed:

STORE? SAVE

8. Press the PROGRAM key to exit from the menu.

Selection of the Tear-Off Mode

It is now possible to select the Tear-Off Mode.

1. Press the PROGRAM key when the printer is disabled or enabled without printing to enter the *Program Setup*.
2. Press the ↓ key. The following message is displayed:

USER MACRO

3. Press the → key to select the macro for which you want to set the tear-off mode (`MACRO#1`, `MACRO#2`, `MACRO#3` or `MACRO#4`).
4. Press the ↓ key, until the following message is displayed:

TEAR NORMAL

Pressing the → or ← key it is now possible to decide how to execute the tear off function:

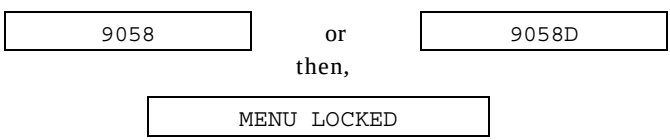
TEAR NORMAL	Pressing the ON LINE key the paper is moved to the tear-off position. Pressing again the ON LINE key, the paper is moved to the printing position. If the ON LINE key is not pressed for 10 seconds, the paper moves automatically back to the print position.
TEAR AUTOMATIC	If the printer is not receiving data, the paper is moved automatically to the tear position.
LABELS	The ON LINE key is disabled for the tear-off function. This selection is useful when printing on labels.
TEAR NO	The Tear-Off function is disabled

5. Press the PROGRAM key to exit the setup.

How to Lock/Unlock the Access to the Printer Setups

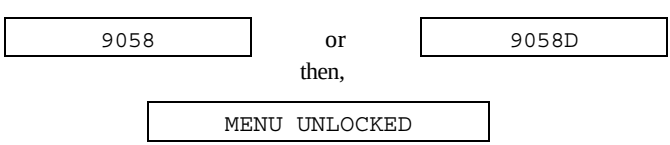
To prevent not expertise persons changing the printer setup parameters, it is possible to lock/unlock the access to the printer setups as follows:

- Press ON LINE, MACRO and SHIFT keys at the same time and keep them pressed while powering the printer on. As soon as these keys are released, the following messages will be displayed:



Now the access to the printer setups is locked. If the PROGRAM key is pressed, the LOCKED MENU message is displayed (the PROGRAM key is disabled).

- If you decide to unlock the printer setup, turn the printer off, then press the ON LINE, MACRO and SHIFT keys at the same time and keep them pressed while powering the printer on again. As soon as these keys are released, the following messages will be displayed:



How to Handle the Paper Parking

The paper parking is performed in the following cases:

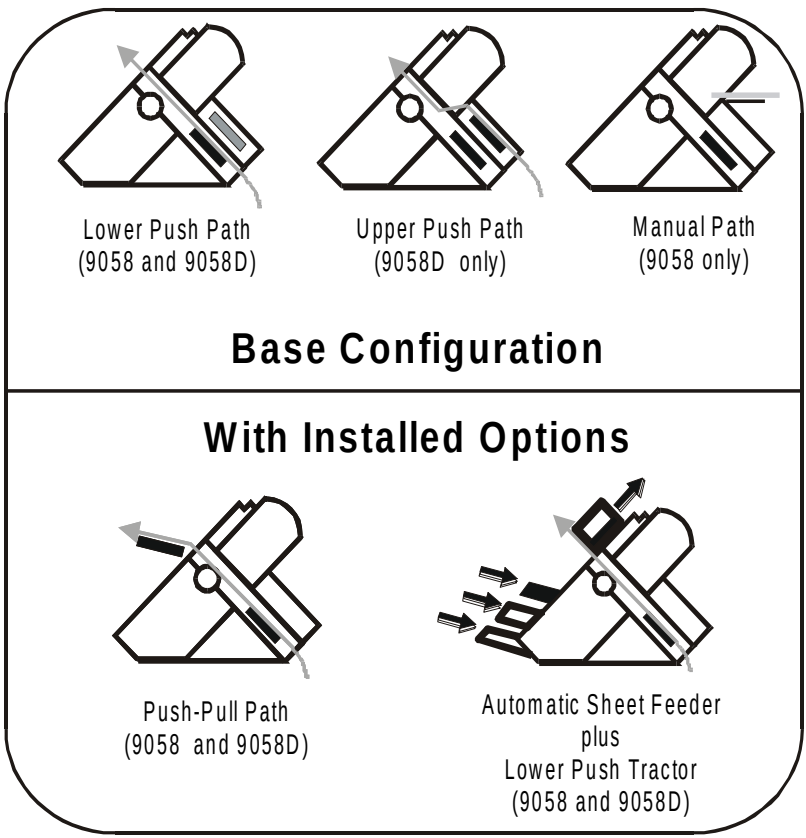
- At power on, if the paper is loaded in a paper path that is not the default one, the parking is performed automatically.
- If the paper is present and the PATH key is pressed to change the paper path, the printer requests to confirm the parking of the current fanfold paper (PARK SURE? message is displayed) by pressing the PARK key, before the paper path is changed, then the paper is loaded in the new paper path.
- When parking via SW command, the printer requests to park the paper (PARK SURE? message is displayed) by pressing the PARK key.
- When loading paper via SW command in a different paper path, the printer requests to park the paper in the current paper path (PARK SURE? message is displayed) by pressing the PARK key, then the printer parks the paper before loading the paper in the selected path.
- When changing to a macro using a different paper path, the printer automatically parks the paper.

In all the above cases, the parking procedure may be interrupted by pressing the SHIFT key. The display shows PARK ABORTED message.

Paper Handling

Paper Paths

The following figure shows the paper path configurations.



For the 9058D model the upper tractor may be installed, even if it is not used, also when the paper feeding options are used.

Paper Specifications

It is important to use the correct paper for obtaining the best performance. See the information table below:

Fanfold Paper (9058 and 9058D models)

Loading Mode	Lower Tractor	Upper Tractor (9058D only)	Push-Pull (option)
Width	76 to 432 mm 3 to 17 inches	76 to 432 mm 3 to 17 inches	76 to 432 mm 3 to 17 inches
Length	76 to 609 mm 3 to 24 inches	76 to 609 mm 3 to 24 inches	76 to 609 mm 3 to 24 inches
Thickness	max.0.635 mm 0.025 inches	max. 0.635 mm 0.025 inches	max. 0.635 mm 0.025 inches
Copies	1 + 7	1 + 7	1 + 7
Weight (g/m^2):			
- Original	55 to 150	55 to 150	55 to 150
- Other sheets	45 to 75	45 to 75	45 to 75
- Carbon Paper	35	35	35

Envelopes (9058 model only)

Loading Mode	Manual Feeding
Length	102 to 559 mm (4 to 22 inches)
Thickness	Max.variations 3 mm (0.013 inches)
Types	USA 6 (165 x 92 mm)
	USA 10 (241 x 105 mm)

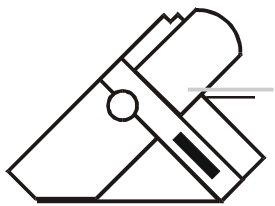
Cut Sheets (9058 model only)

Loading Mode	Manual Loading		
Width	114 to 432 mm (4.5 to 17 inches)		
Length	101 to 559 mm (4 to 22 inches)		
Weight	Original:	50-120 g/m^2	
	Multiparts:	First Sheet:	55-75 g/m^2
		Other Sheets:	45 - 75 g/m^2
		Carbon Paper:	14 - 35 g/m^2
Formats	A5	149 x 210 mm	Portrait & Landscape
	A4	210 x 297 mm	Portrait & Landscape
	A3	297 x 420 mm	Portrait & Landscape
	A2	420 x 554 mm	Portrait
	Letter	8.5 x 11 inches	Portrait & Landscape
	Legal	8.5 x 14 inches	Portrait & Landscape
	Executive	7.25 x 10.5 inches	Portrait & Landscape
Thickness	max. 0.635 mm (0.025 inches)		

Copies	1 Original + 7 Copies

Cut Sheets

Cut Sheets Loading Modes



9068 plus model

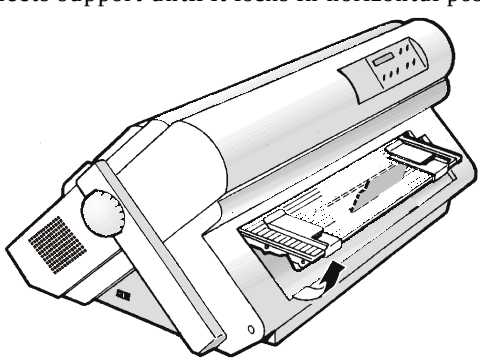
> Cut sheet loading mode is only available for the 9058 model.

Cut sheets can be loaded *manually*, one at a time using the front manual paper path (manual or automatic loading) or automatically using the ASF option for large quantities of paper.

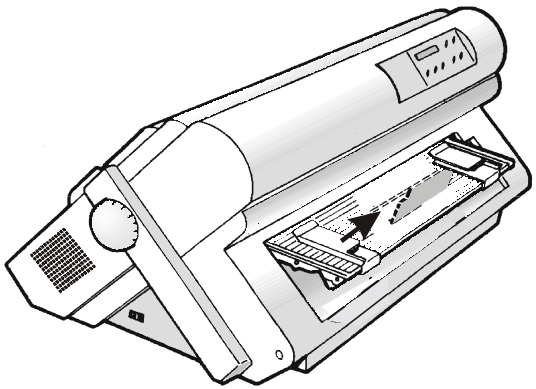
> Inserting a cut sheet, the fanfold paper is automatically parked with a reverse movement (if the overlapping is not selected).

Loading Cut Sheets

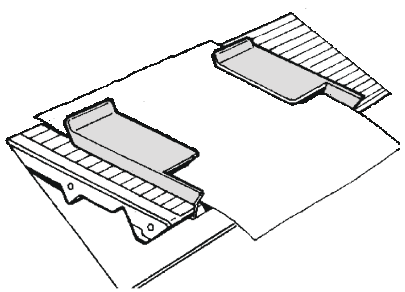
1. Lift the cut sheets support until it locks in horizontal position.



2. Position the left paper guide on the cut sheet support for the first printing column (position 0).



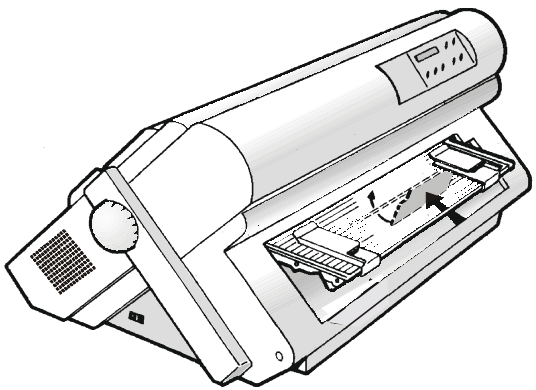
3. Insert a cut sheet along the left paper guide. Match the right paper guide with the sheet margin.



4. The loading mode of the cut sheet depends on the value set for the QUICK function in the Power-On Configuration:

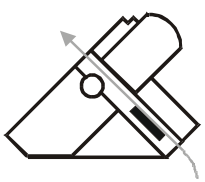
Manual loading mode (QUICK NO)	Make sure that the printer is disabled. Insert a cut sheet onto the front paper support and press the LOAD/FF key to feed the paper. Press the ON LINE key to enable the printer.
Automatic loading mode (QUICK YES)	Insert a cut sheet onto the front paper support, the paper will be loaded automatically after 2 seconds. The LOAD/FF key can be used to load the paper into the printer, before the 2 seconds have passed.

5. To lower the paper feed support, free the paper support holder below the support and lower it. Gently press down the support, until it engages in its initial position.

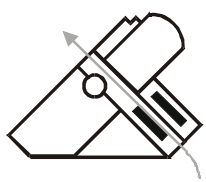


Fanfold Paper

Loading Paper Using the Lower Tractor



9058 model



9058D model

> If your printer is the 9058 model, make sure that the cut sheets support is closed before loading the fanfold paper.

1. To select the lower tractor paper path press the PATH key until the display shows:

```
LOAD LOWER PUSH
```

- If your printer is the 9058D model , press the PATH key to select the lower tractor paper path. The display shows:

```
PATH CHANGING
```

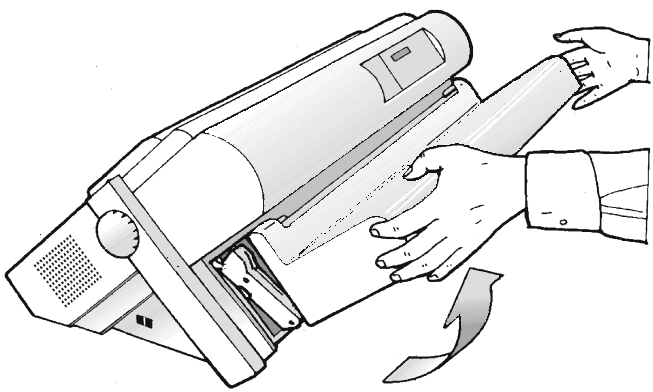
- If the fanfold paper is present in the upper tractor paper path, the printer automatically parks this fanfold before loading the new one. The display shows:

```
PARK: SURE?
```

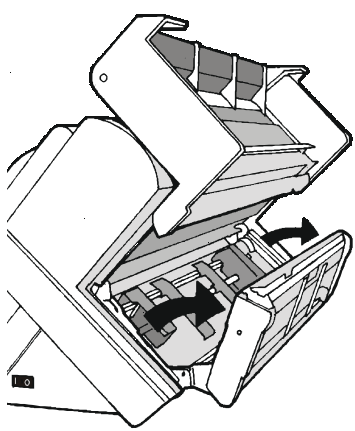
- Tear off the fanfold loaded from the upper tractor paper path to avoid paper jams. Press the PARK key. Then the display shows:

```
LOAD LOWER PUSH
```

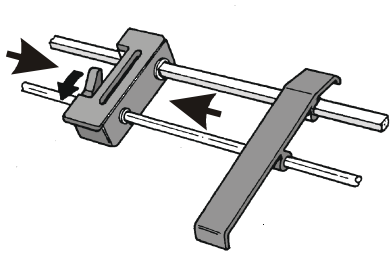
2. Open the tractor area cover turning is upwards and lay it on the top of the printer.



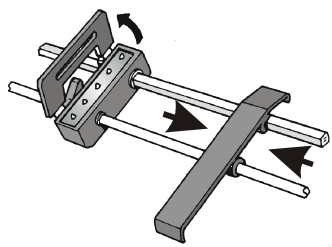
- If your printer is the 9058D model and the upper tractor is installed, rotate the upper tractor out of the printer.



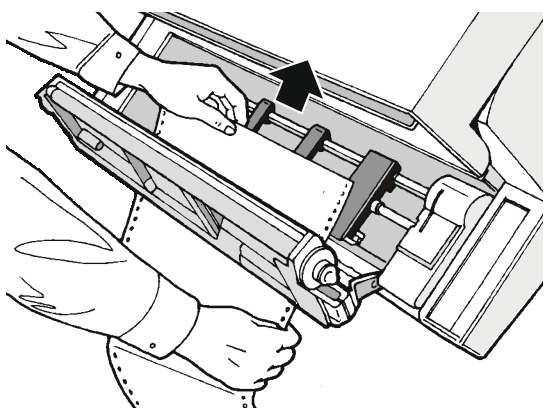
3. Unlock the sprockets of the Lower tractor lowering the sprocket levers. Slide the left sprocket to the first printing column.



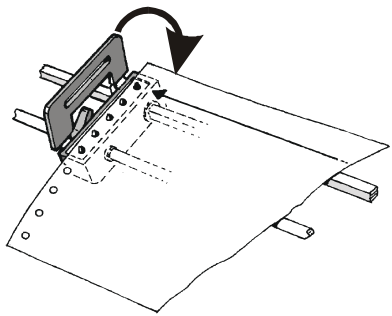
4. Space the paper guides along the tractor bar. Open the sprocket covers of the left and right sprocket.



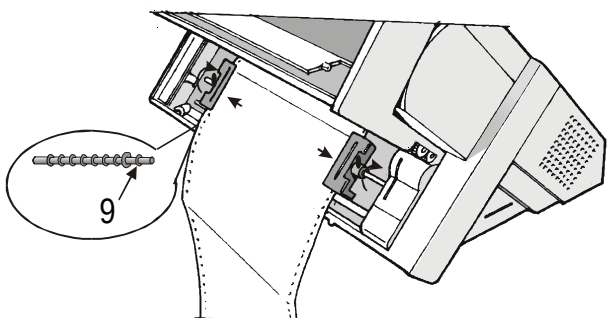
- If your printer is the 9058D model, insert the fanfold paper between the lower and the upper tractor.



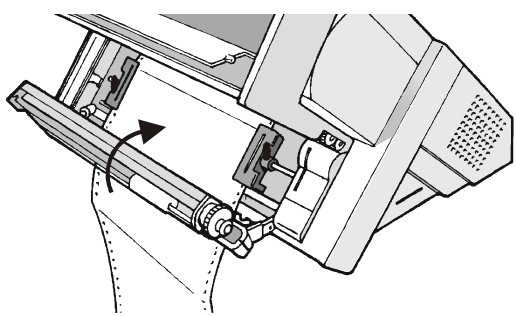
5. Hold the fanfold paper in front of the sprockets and insert the paper perforation on the left and right sprocket pins. Close the sprocket covers.



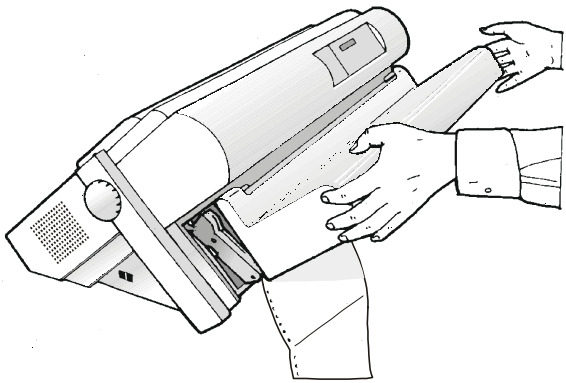
6. Match the left sprocket for the first printing position with the ninth mark and lock it in place. Adjust the right sprocket gently to remove slack from the paper.



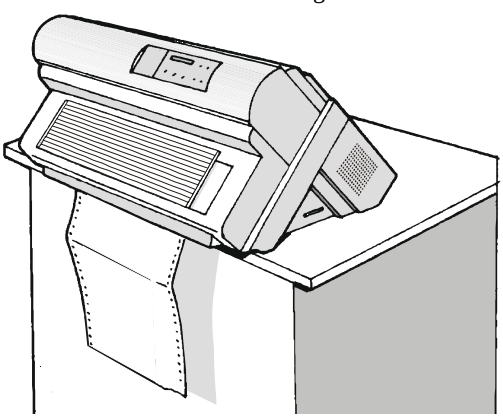
- If your printer is the 9058D model, reposition the upper tractor in its initial position.



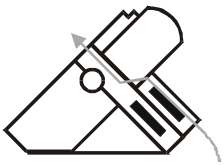
7. Close the tractor area cover. Press the LOAD/FF key to load the paper into the printer.



8. The paper must be loaded as shown in figure.



Loading Paper Using the Upper Tractor



9058D model

> Fanfold paper loading mode through the upper tractor is only available for the 9058D model. To load paper in this way, it is necessary to install the upper tractor. See "Installation".

1. Press the PATH key to select the upper tractor paper path. The display shows:

PATH CHANGING

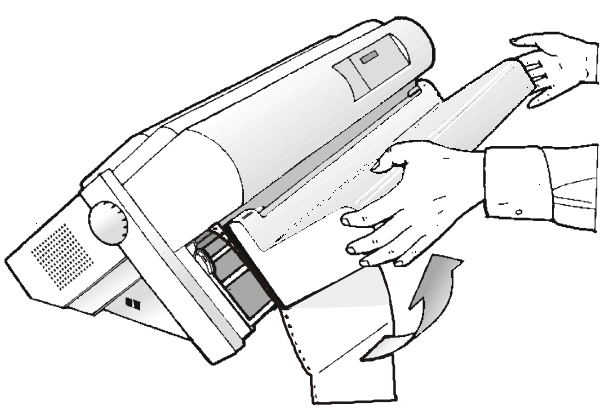
2. If fanfold paper is present in the lower tractor paper path, the printer automatically parks this fanfold before loading the new one. The display shows:

PARK: SURE?

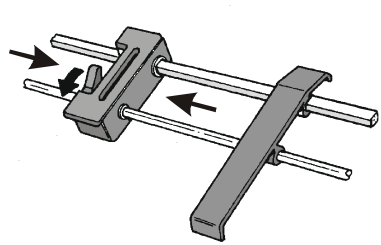
3. Tear off the fanfold loaded from the lower tractor paper path to avoid paper jams. Press PARK. Then the display shows:

LOAD UPPER TRACTOR

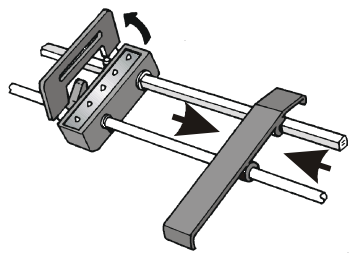
4. Open the tractor area cover turning is upwards and lay it on the top of the printer.



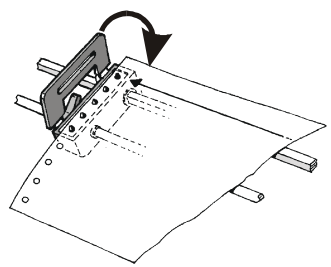
5. Unlock the upper tractor sprockets lowering the sprocket levers. Slide the left sprocket to the first printing column.



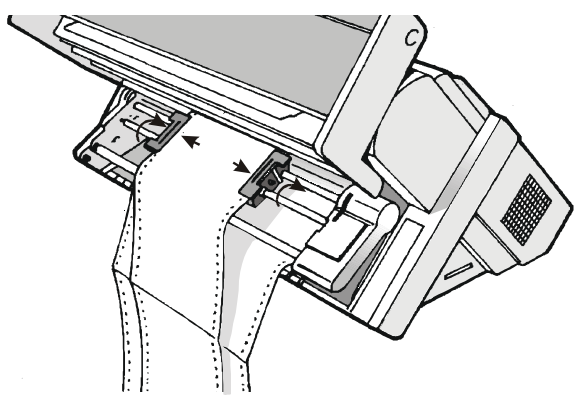
6. Space the paper guides along the tractor bar. Open the sprocket covers of the left and right sprocket.



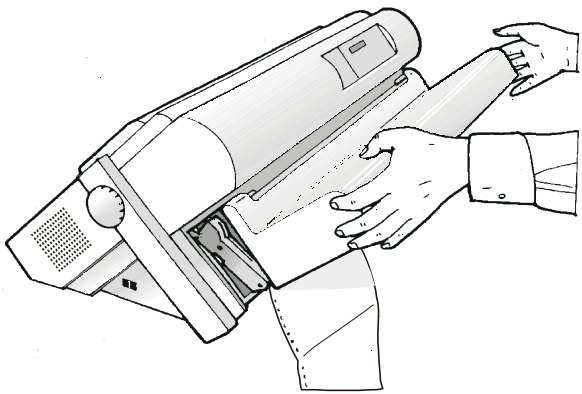
7. Insert the paper perforation on the left and right sprocket pins and close the sprocket covers.



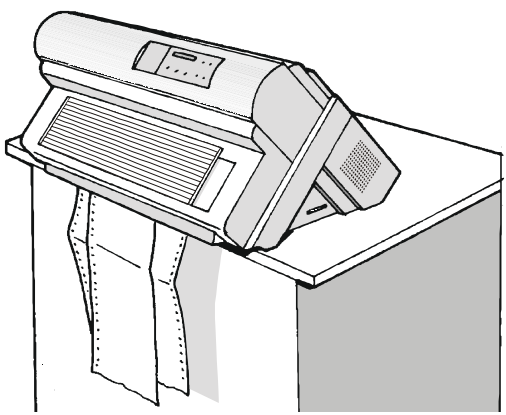
8. Position the left sprocket for printing and lock it in place. Adjust gently the right sprocket to remove slack from the paper.



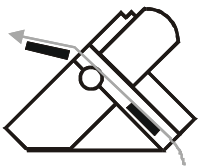
9. Close the tractor area cover. Press the LOAD/FF key to load the paper into the printer.



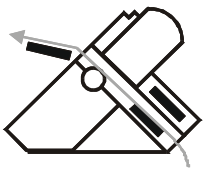
10. The paper must be loaded as shown in figure.



Loading Paper Using the Lower Push Tractor and the Rear Pull Tractor (option)



9058 model



9058D model

For loading paper in this way, it is necessary to install the optional rear pull tractor. See "Options" later in this manual.

With this paper path configuration paper is loaded contemporaneously with the lower front push tractor and the rear pull tractor. In this way it is possible to handle stronger paper.

Once the rear pull tractor is installed, the fanfold paper can be loaded only in push-pull mode.

1. Press the PATH key to select the push-pull paper path. The display shows:

```
LOAD PUSH-PULL
```

- If your printer is the 9058D model, press the PATH key to select the push-pull paper path. The display shows:

```
PATH CHANGING
```

- If the fanfold paper is present in the upper tractor paper path, the printer automatically parks this fanfold before loading the new one. The display shows:

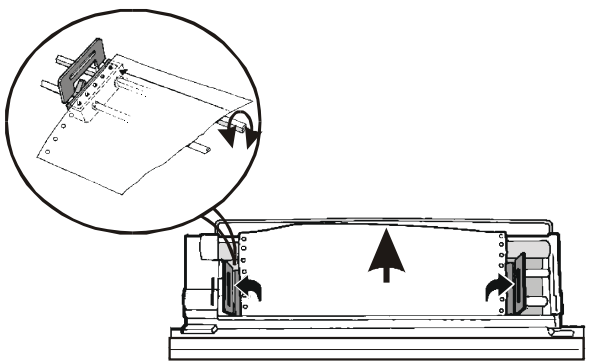
```
PARK: SURE?
```

- Tear off the fanfold loaded from the upper tractor paper path to avoid paper jam. Press the PARK key. Then the display shows:

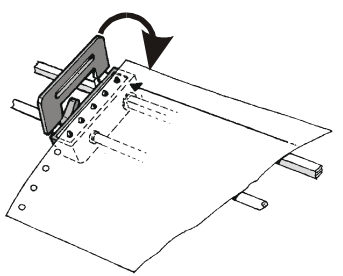
```
LOAD PUSH-PULL
```

2. To load the fanfold paper on the lower push tractor, follow the sequence *Loading Paper Using the Lower Tractor* described before.

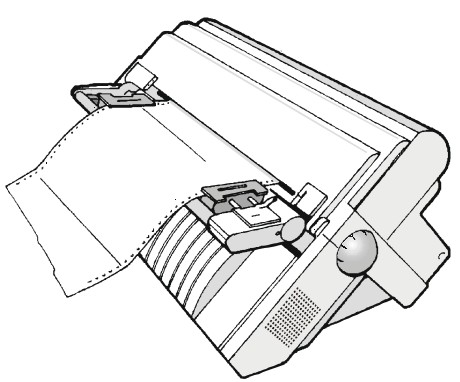
3. Take up the slack of the paper exiting from the rear paper slot and rotate the sprocket bar to align the sprocket pins of the rear tractor with the paper perforation.



4. Lock the sprocket covers and lower the sprocket levers.



5. Press the ON LINE key to confirm that the paper loading is finished. The rear tractor engages.
6. The figure shows the correct paper loading.



Printer Maintenance and Troubleshooting

Cleaning the Printer

Make sure the printer has been turned off for at least 15 minutes before starting any cleaning operations.

Periodic cleaning will help keep your printer in top condition so that it will always provide optimal performance.

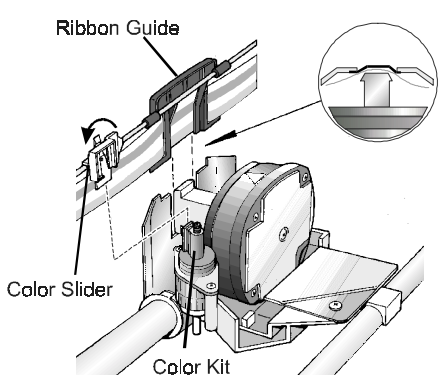
- Use a neutral detergent or water solution on a soft cloth to clean dirt and grease from the cabinet of the printer.
- Do not use an abrasive cloth, alcohol, paint thinner or similar agents because they may cause discoloration and scratching.
- Be especially careful not to damage the electronic and mechanical components.

Replacing the Ribbon Cartridge

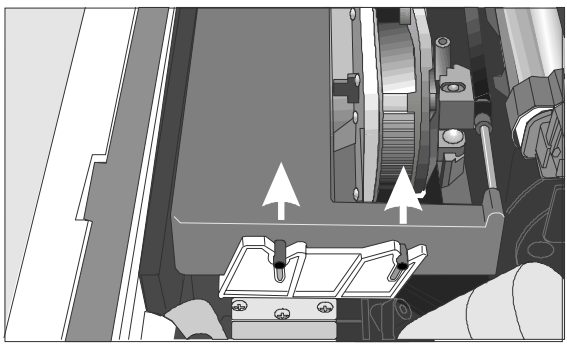
1. Make sure that the printer is turned off for at least 15 minutes.

Pay attention to the print head because it becomes hot during operation.

2. Open the top printer cover.
3. Slide the ribbon guide out of the print head. If the color kit is installed on the printer, unlock the white slider pressing and holding the lever on the slider towards the back of the printer and contemporaneously lifting the slider off the color mechanism.



3. Remove the used ribbon cartridge by lifting it up.



Now, you are ready to insert the new ribbon cartridge. See "Ribbon Cartridge Installation" before in this manual.

Printing the Self Test

At this point you should check if the printer is working well. The self-test printout allows you to check the print quality and printer operations

Proceed as follows:

1. Keep the ON LINE key pressed while powering on the printer until the display boxes are filled in and the printer stops all motions.
2. When you release the key, the printer starts the self-test printout.
3. To stop the self-test printing, press the ON LINE key again. The printer is offline.

Error Handling

When an error condition occurs:

- the printer is disabled;
- the first message on the display indicates the error, while the second message gives indicates more details concerning the error conditions.

Press always the ON LINE key to reset the error condition.

Error Message Description

Messages	Indication	Solution
A.G.A. NOT OPER. ADJUST THE GAP	The automatic gap adjustment (A.G.A) is not enabled.	Press the ON LINE key to reset the error condition. Adjust the print head gap to a fixed distance. Select the print head gap adjustment in the *Program Menu*. • Press the PROGRAM key when the printer is disabled (READY indicator unlit) to enter the *Program Setup*. • Press the ↓ key until the USER MACRO function is displayed. Press the → key until the desired macro is displayed (MACRO#*x*). • Press the → key to enter the macro parameters. • Press the ↓ key until the FIXED GAP parameter is displayed. • Press the → o ← keys to select the fixed gap adjustment values. From FIXED GAP 1 (simple fanfold) to FIXED GAP 4 (multipart fanfold).
BUFFER OVERFLOW CHARACTER LOST	An overflow condition occurs in the buffer (if the serial interface is selected).	Turn the printer off and on again, or press the PROGRAM and ON LINE key successively and the buffer will be cleared.
DATA SET OFF	The DSR Signal is not connected to the printer and is not ready for data transfer (if the serial interface is selected). This condition may happen in a remote connection (via modem) and the DSR (DATA SET READY) signal is missing.	Press the ONLINE key to reset the error condition.
INTERLOCK ERROR CHECK INSERTION	Neither the rear tractor nor the tractor cover are installed on the printer.	Install the rear tractor or the tractor cover on the printer.
NOPATH AVAILABLE	An electromechanical failure occurs in the lower or upper tractor paper paths.	Call Service.
NO PATH AVAILABLE PATH CHANGING	An electromechanical failure occurs in the lower tractor paper path. The printer changes automatically to the cut sheet paths (Manual or ASF).	Call Service.

Messages	Indication	Solution
PAPER JAM CHECK ALL PATHS	A paper jam error condition occurs in the paper path.	Check all the paper paths and remove the jammed paper. Press the ON LINE key to reset the error condition.
PRINT INTEGRITY	Anomalous print out because of a possible print carriage blocking.	✍ Do not move the platen knob. Press the ONLINE key to reset the error condition.
RIBBON BLOCKED CHECK RIBBON	The ribbon of the cartridge is blocked.	Check that the ribbon is correctly inserted. Turn the tension knob to make sure that the ribbon is not jammed. Press the ONLINE key to reset the error condition.

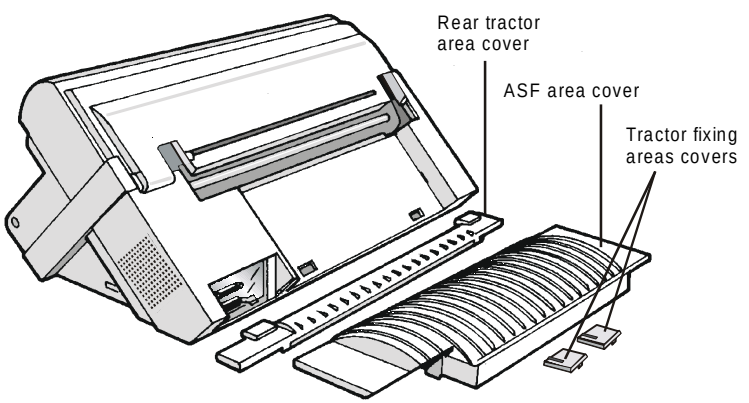
Options

The Rear Pull Tractor

The rear pull tractor is useful to handle particularly heavy paper.

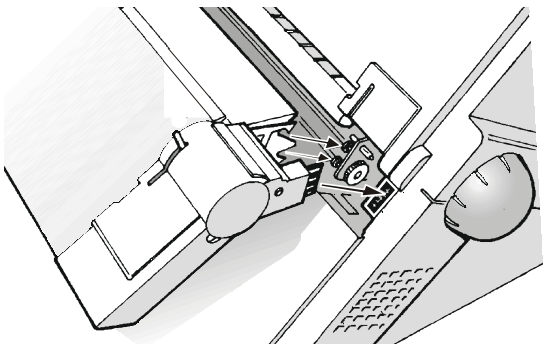
Installing the Rear Pull Tractor

1. Turn the printer off.
2. Remove the ASF cover, the rear tractor area cover and the two small tractor fixing area covers.



✍ Keep the covers in a safe place, as they must be reinstalled if the rear tractor is removed.

3. Replace the ASF cover.
4. Insert the rear pull tractor as shown in figure and the corresponding fixing area covers (with the slot) as shown in figure.

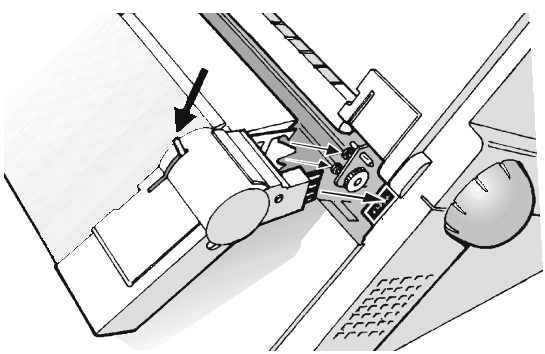


5. Turn the printer on.

The paper can be loaded in push-pull mode. See "Loading Paper Using the Lower Push Tractor and the Rear Pull Tractor" before in this manual.

Removing the Rear Pull Tractor

1. Push the lever on the rear pull tractor down and lift the tractor out of the printer.



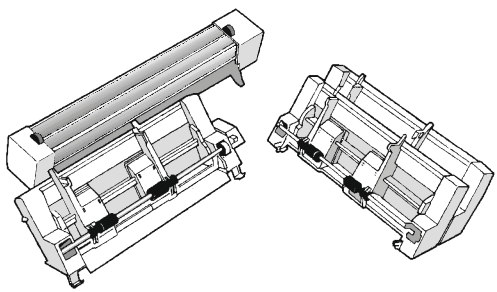
2. Insert the rear tractor cover and make sure that the interlock connector is correctly inserted.

If the cover is not inserted, the printer is blocked.

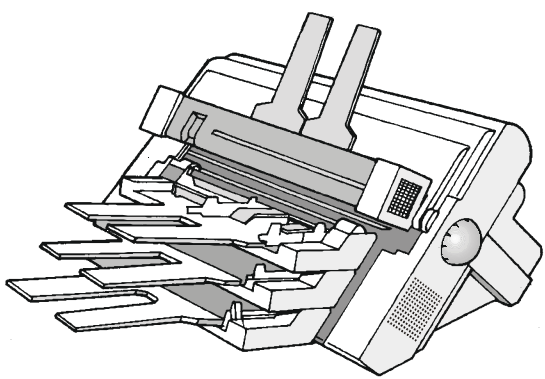
Automatic Sheet Feeder (ASF)

The Automatic Sheet Feeder (ASF), located in the rear of the printer, provides fast and automatic single sheet and envelopes loading. The ASF includes:

- A *paper stacker*, which automatically collects the output paper.
- A *single bin* for single sheets (A5, A4, Letter, Legal. Executive) and envelopes.
- A 2nd and 3rd optional bins are also available.

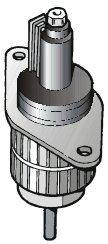


Please find the installation instructions for the ASF on the corresponding manual. The following picture shows the ASF options and their position in the printer.



Color Kit

This printer can print not only in black but also in different colors. For color printing you need the optional color kit shown in the figure below.



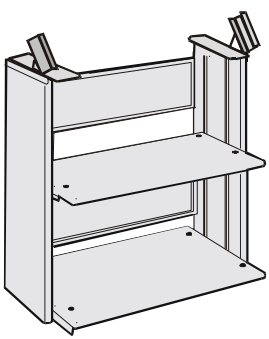
The color kit is installable by an authorized technician.

The color or the black ribbon 'Long Life' cartridge can be used when the color kit is installed.

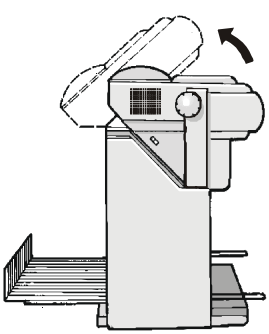
Pedestals

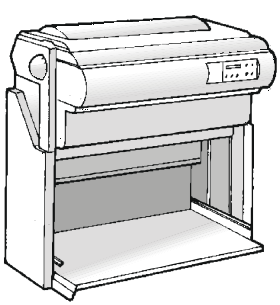
Two printer floor pedestals are available:

Three Levels Floor Pedestal for large paper quantity and dual fanfold handling.



Two Levels Floor Pedestal with inclining printer level for document on demand application.





Printer Specifications

Printing Characteristics

Print Head	
Matrix	24 pins - 0.2 mm
Print Head Life	400 mil characters (draft)

Print Speed (cps)		
	Draft	Quality
10 cpi	480	133
12 cpi	540	160
15 cpi	675	200

Throughput (pages/hour)		
	Draft	Quality
ECMA 132	450 pph	193 pph

Print Matrix (horizontal x vertical)		
	Draft	Quality
10 cpi	12 x 24	36 x 24
12 cpi	12 x 24	30 x 24
15 cpi	8 x 24	24 x 24

Print Density (characters per inch)	
Normal	10 - 12 - 15 - 17.1 - 20 - 24
Enlarged	5 - 6 - 7.5 - 8.5
Proportional	

Line length (number of characters)			
10 cpi	136	17.1 cpi	233
12 cpi	163	20 cpi	272
15 cpi	204	24 cpp	326

Vertical Spacing
6, 8 LPP
n/60, n/72, n/180, n/216 inch
3, 4, 6, 8, 12 lines/30 mm

Print Styles
Draft, Courier, Gothic, OCR A, OCR B, Script, Prestige, Presentor, Boldface

Print Attributes
Sub-superscript, Underline, Overscore, Italics, Emphasized

Characters Sets	
International character sets ASCII	
Standard PC IBM Character Sets	CS1 and CS2
EPSON National Variations	USA, France, Germany, United Kingdom, Denmark-1, Sweden, Italy, Spain-1, Japan, Norway, Denmark-2, Spain-2, Latin America
IBM and EPSON Code Pages	USA (CP437), Greek (CP437-G), Multilingual (CP850), Greek (CP851), Eastern Europe (CP852), Turkish (CP 853), Cyrillic (CP855), Turkish (CP857), Euro PC Multilingual (CP858), Portugal (CP860), Hebrew (CP862), Canada/France (CP863), Arabic (CP864), Denmark/Norway (CP865), Russian (CP866), Turkish2 (CP867), OCR-A (CP876), OCRB (CP877), GOST, TASS
ISO Character Sets	8859/1 (Latin1), 8859/2 (Latin2), 8859/3 (Latin3), 8859/4 (Latin4), 8859/5 (Latin/Cyrillic), 8859/6 (Latin/Arabic), 8859/7 (Latin/Greek), 8859/8 (Latin/Hebrew), 8859/9 (Latin5), 8859/15 (Latin9)

Bar Codes
UPC-A, UPC-E, EAN-8, EAN-13, UPC-EAN 2, UPC-EAN 5, Code GP, MSI, Code BCD, 2/5-3Bar, Code39, Code 128, Code 11, Code 93, 2/5 Bidirectional, 2/5 Interleaved, 2/5 Industrial, 2/5 Matrix, Postnet, Codabar

Paper Handling

9058 model Base Configuration			
Fanfold Paper			
1	LOWER PUSH TRACTOR		
	Fanfold width:	76 to 432 mm	(3 to 17 inches)
	Copies:	1 original + 7 copies	Max. thickness 0,635 mm
Cut Sheets (loaded through the manual slot)			
	Sheet width:	114 to 432 mm	(4,5 to 17 inches)
	Standard formats:	A5 - A4 - A3 - A2 in portrait Letter - Legal – Executive	
	Copies:	1 original + 7 copies	Max. thickness 0,635 mm

9058D model Base Configuration			
Fanfold Paper			
1	LOWER PUSH TRACTOR		
	Fanfold width:	76 to 432 mm	(3 to 17 inches)
	Copies:	1 original + 7 copies	Max. thickness 0,635 mm
1	UPPER PUSH TRACTOR		
	Fanfold width:	76 to 432 mm	(3 to 17 inches)
	Copies:	1 original + 7 copies	Max. thickness 0,635 mm

With the pull tractor option
Push-Pull Feeding
Front fanfold insertion with lower tractor in front push mode and rear tractor in pull mode.

Automatic Sheet Feeder (Option)	
First tray	Single sheets, envelopes and postcards
Second and third tray	Single Sheets
Paper stacker	
- Tray capacity	120 sheets (80 g/m^2)
- Sheet width	8,89 to 30,48 cm (3,5 to 12 inches)
Copies	1 original + 2 copies
Coexisting with manual sheet (9058 model only) Coexisting with fanfold in push mode	

Emulations	
- EPSON LQ 1050-2550	- IBM Proprinter XL24-XL24E
	- IBM Personal Printer 2391

Standard Functions
• Automatic print head gap adjustment (AGA)
• Automatic paper path switching via operator panel or S/W commands
• Paper parking
• Plug & Play capability
• Bar Code printing
• Automatic fanfold positioning for tear-off
• Setting and storage of paper format and print conditions for each paper path in the non volatile memory

Physical and Electrical Characteristics

Interfaces	
Parallel	Centronics Compatible Bi-directional (IEEE-1284) nibble and byte modes - 36 pin Amphenol connector
	Receive Buffer: max. 32 Kbytes
Serial	RS-232/C and RS-422/A - dB 25 connector
	Baud Rate: 300 to 38400 bps
Automatic interface switching	

Reliability	
MTBF	Mean Time between failure: 10000 hours at 25% DC
MTTR	Mean Time To Repair: 30 minutes
Workload	32000 pages/month (ECMA 132 - 4 hours for 20 days)

Power Supply	
120 V/ 60 Hz	USA power cable
220 - 240 V / 50 Hz	European power cable
	UK power cable
Power Consumption	Standby: 28W ---- Average Printing: 90 W

Noise Level
53 dBA

Environment Conditions		
Storage Conditions		
	Temperature	-40° to 50° C
	Relative Humidity	10%t o 90% RH (non condensing)
Operating Conditions		
	Temperature	10° to 38° C
	Relative Humidity	10% to 90% RH (non condensing)
Paper Conditions		
	Temperature	16° to 24° C
	Relative Humidity	40% to 60% RH (non condensing)

Physical dimensions	
Height	315 mm (12,4 inches)
Width	670 mm (26,38 inches)
Depth	390 mm (15,35 inches)
Weight	18 kg (39,7 lbs)

Consumables and Options

- Black ribbon cartridge (15 million characters)
- "Long life" black ribbon cartridge (20 million characters)
- Color ribbon cartridge (2 million characters for each band)
- Automatic Sheet Feeder (ASF) with envelopes and sheet stacker
- Two additional trays for the automatic sheet feeder
- Additional pull tractor unit for push-pull fanfold handling
- Color Kit
- Three level floor pedestal for high paper capacity and dual fanfold
- Two level floor pedestal with inclinable printer level